

**VEGETATION NOTES:**

REVEGETATION OF DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. **PERMANENT IMPROVEMENTS.** PERMANENT IMPROVEMENTS SUCH AS STREETS, STORM SEWERS, CURB AND GUTTERS, AND OTHER FEATURES FOR CONTROL OF RUNOFF SHALL BE SCHEDULED COINCIDENTAL TO REMOVING VEGETATIVE COVER FROM THE AREA SO THAT LARGE AREAS ARE NOT LEFT EXPOSED BEYOND THE CAPACITY OF TEMPORARY CONTROL MEASURES.
2. **TOP SOIL.** TOP SOIL SHALL BE STOCKPILED AND PROTECTED FOR LATER USE ON AREAS REQUIRING LANDSCAPING. IF TOP SOIL OR OTHER SOIL IS TO BE STOCKPILED FOR MORE THAN 30 DAYS, A TEMPORARY COVER OF ANNUAL RYE OR OTHER SUITABLE GRASS SHALL BE PLANTED.
3. **EXISTING VEGETATION.** EVERY MEANS SHALL BE TAKEN TO CONSERVE AND PROTECT EXISTING VEGETATION.
4. **REVEGETATION.** REVEGETATION SHALL BE REQUIRED TO MEET THE FOLLOWING PERFORMANCE STANDARDS:
  - (A) ZERO TO 10% GRADE: REVEGETATION SHALL BE A MINIMUM OF SEEDING AND MULCHING. SAID SEEDING SHALL PROVIDE COMPLETE AND UNIFORM COVERAGE THAT MINIMIZES EROSION AND RUNOFF IN NO MORE THAN TWO GROWING SEASONS.
  - (B) 10% TO 15% GRADE: REVEGETATION SHALL BE A MINIMUM OF HYDROSEEDING WITH MULCH AND FERTILIZER, STAKED SOD AND/OR GROUNDCOVER. SAID PLANTING SHALL PROVIDE COMPLETE AND UNIFORM COVERAGE IN NO MORE THAN TWO GROWING SEASONS.
  - (C) 15% TO 20% GRADE: THE SLOPE SHALL BE COVERED WITH LANDSCAPE FABRIC AND PLANTED WITH GROUNDCOVER AS SET FORTH IN (B) ABOVE.
  - (D) MORE THAN 20% GRADE: ANY FINISH GRADE OVER 20% SHALL BE STABILIZED WITH RETAINING WALLS, CRIBBING, TERRACES, LANDSCAPE FABRIC, VEGETATION, OR RIPRAP. IF RIPRAP IS USED THE SLOPE'S STABILITY AND ERODIBILITY MUST BE EQUIVALENT TO OR BETTER THAN ITS PREDEVELOPMENT STATE.

**ROGERS PLANNING COMMENTS:**

1. ENGINEER TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ROGERS PLANNING DEPARTMENT PRIOR TO ISSUANCE OF A GRADING PERMIT. ALL PHASE 1 EROSION CONTROL MUST BE INSTALLED PRIOR TO THE PRE-CONSTRUCTION MEETING AND A REDUCED SET OF CONSTRUCTION PLANS (11"x17") WILL BE REQUIRED.
2. THE PERSON FINANCIALLY RESPONSIBLE FOR THE PROJECT MUST OBTAIN A GRADING PERMIT INCLUDING A COPY OF THE NOI, A COPY OF THE STORMWATER PREVENTION PLAN, AND A COPY OF THE GRADING AND EROSION CONTROL PLAN.
3. A COPY OF THE NOTICE OF TERMINATION WITH ADEQ MUST BE PROVIDED IN ORDER TO RECEIVE A CERTIFICATE OF OCCUPANCY (PROJECTS OVER 45 ACRES).
4. A GRADING PERMIT WILL NOT BE ISSUED UNTIL THE PLANNING COMMISSION HAS APPROVED THIS LARGE SCALE DEVELOPMENT PLAN. PERMIT REQUIREMENTS ARE AVAILABLE IN THE PLANNING OFFICE.
5. PROVIDE A SOILS REPORT SIGNED AND SEALED BY A PROFESSIONAL ENGINEER TO BE INCLUDED WITH THE BUILDING PERMIT APPLICATION.
6. ALL DRIVEWAY APPROACHES MUST BE LESS THAN 10% IN GRADE ELEVATION UNLESS APPROVED BY THE CITY ENGINEER OR CITY PLANNER.

**SEDIMENT & EROSION CONTROL NOTES:**

1. DRAINAGE IMPROVEMENTS MUST BE COMPLETED AND CERTIFIED BY THE ENGINEER OF RECORD, BATES AND ASSOCIATES, WITH ALL DITCHES AND BASINS SOLID-SODED, CONCRETE-LINED, OR UNDERGROUND CONDUIT INSTALLED PRIOR TO CERTIFICATE OF OCCUPANCY. EROSION CONTROL METHODS MUST BE USED DURING CONSTRUCTION.
2. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FROM A.D.E.Q. AND CITY OF ROGERS REGARDING RUNOFF, EROSION CONTROL, AND GRADING BEFORE BEGINNING CONSTRUCTION.
3. ALL EROSION & SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AND OCCASIONALLY REPLACED THROUGHOUT CONSTRUCTION.
4. ALL EROSION & SEDIMENT CONTROL DEVICES SHOWN SHALL BE INSTALLED BEFORE CONSTRUCTION BEGINS. THOSE ITEMS SHALL REMAIN IN PLACE UNTIL DEEMED SAFE TO REMOVE BY ENGINEER.
5. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR ANY UPSTREAM OR DOWNSTREAM FLOODING AS A DIRECT RESULT OF THIS DEVELOPMENT.

- AMENDED SOIL RATIO: MIX EVENLY
- 50% SAND (ASTM C-33)
- 25% COMPOST
- 25% SANDY LOAM TOPSOIL

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—SODDED TO TOP

—LINE WITH 16 MIL IMPERMEABLE LINER

—3" DEPTH WASHED RIVER GRAVEL AS MULCH

—DEPTH AMENDED SOIL SAND/PEAT MIX

—DEPTH ADDITIONAL AMENDED SOIL SAND/PEAT MIX

—END CLASS 'A' COMPOST

POUROUS BIO-RETENTION AMENDED SOIL DETAIL  
N.T.S.

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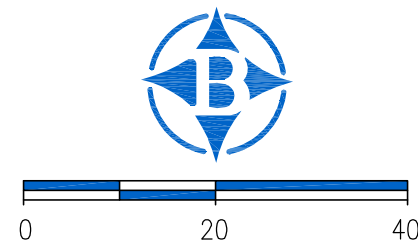
PRIMROSE SCHOOL  
SITE IMPROVEMENT PLANS  
GRADING & EROSION CONTROL PLAN

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ROGERS, ARKANSAS

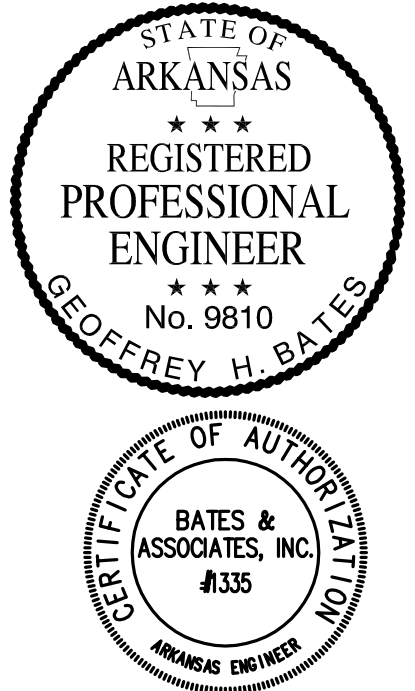
**Bates &  
Associates, Inc.**  
[www.batesassoc.com](http://www.batesassoc.com)  
**Civil Engineering & Surveying**  
77230 S. Peasant Ridge Rd. Fayetteville, Arkansas 72703 • 479.442.9350 • Fax 479.521.9350





REQUIRED LANDSCAPING TABLE

		FACTOR	COUNT
EXISTING TREES	0	1	0
EXISTING SHRUBS	0	1	0
LANDSCAPE REQUIRED	82,294 SF/1,000 SF = 88 TREES & SHRUBS		88
TOTAL TO BE PLANTED MINUS EXISTING	88		88
OVERLAY LANDSCAPE REQUIRED	±0 SQUARE FEET		0 TREES
PROVIDED	10 TREES & 78 SHRUBS WILL BE PLANTED		88



DRAWN BY: B. Watts — E. Niehues ENGINEER: G. Bates

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PLANT LIST

QTY	SYM	COMMON NAME/ BOTANICAL NAME	ROOT	MIN. SIZE	NOTES
5	BC	BALD CYPRESS Taxodium distichum	B&B	2.5" CAL.	
6	NM	NORWAY MAPLE Acer platanoides	B&B	2.5" CAL.	
6	AV	ARROWWOOD VIBURNUM Viburnum dentatum	CONT.	5 GAL.	
34	MH	ADAGIO MAIDEN HAIR Miscanthus sinensis 'Adagio'	CONT.	5 GAL.	
17	BX	BOXWOOD Buxus sempervirens	CONT.	5 GAL.	
22	TS	THUNBERG SPIREA Spiraea thunbergii	CONT.	5 GAL.	
18	IH	INKBERRY HOLLY Ilex glabra	CONT.	5 GAL.	
32	BE	BLACK-EYED SUSAN Rudbeckia Sp.	FLAT	4" POT	

GENERAL LANDSCAPE NOTES

ALL EXISTING TREES TO BE REMOVED.

ALL PLANTING BEDS AND TREE AND SHRUB SAUCERS ARE TO HAVE 4" THICK ORGANIC MULCH EVENLY APPLIED IN PLANTING BED.

ALL PROPOSED PLANTING AREAS COVERED BY GRASS SHALL HAVE THE SOD COMPLETELY REMOVED BEFORE PLANTING BEGINS.

PLANTING AREAS ARE TO HAVE THE SOIL AMENDED TO ALLOW FOR PROPER TREE GROWTH AS SPECIFIED BY THE LANDSCAPE ARCHITECT.

HOSE BIB IRRIGATION PER CITY OF ROGERS SPECIFICATIONS EVERY 100'.

REQUIRED PLANT MATERIAL WILL BE GUARANTEED FOR 3 YEARS. LANDSCAPING THAT DIES OR IS DAMAGED SHALL BE REPLACED BY THE CURRENT OWNER.

IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE A SURETY TO THE CITY OF ROGERS FOR ALL REQUIRED LANDSCAPING.

MULCH TO BE 2"-3" AWAY FROM TRUNK.

PLANTED VEGETATION TO MEET OR EXCEED ANSI-Z60.1 STANDARDS.

ALL SHRUBS AND PLANTING BEDS WILL BE CONTAINED WITH 3" OR 4" METAL EDGING.

SHRUB PLANTING LEGEND

- | SYMBOL | DESCRIPTION  |
|--------|--|
| 1      | PRUNE BROKEN AND DAMAGED TWIGS AFTER PLANTING                                      |
| 2      | PLACE PLANT IN VERTICAL PLUMB POSITION REMOVE CONTAINER PRIOR TO PLACING BACKFILL. |
| 3      | 3"-4" OF MULCH   |
| 4      | PREPARED BACKFILL. TAMP AND SOAK BACKFILL AFTER PLANTING.                          |

PLANTING NOTES

- A. AREA OF PREPARED BACKFILL SHALL BE EXCAVATED TO THE WIDTH OF THE PLANTING BED.

SHRUB PLANTING DETAIL  
N.T.S.

DECIDUOUS TREE PLANTING LEGEND

- | SYMBOL | DESCRIPTION   |
|--------|---|
| 1      | 4" ORGANIC MULCH. 3'-4" AWAY FROM TRUNK   |
| 2      | REMOVE BALL WRAP FROM TOP 1/3 OF BALL   |
| 3      | ROOTBALL - ROOT COLLAR SHALL BE VISIBLE; REMOVE EXCESS SOIL FROM TOP OF BALL 1" TO 2" ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.                             |
| 4      | TREE SAUCER (4" EARTHEN BERM AT EDGE OF DRIP LINE)  |
| 5      | EXCAVATE AND REPLACE EXISTING SOIL. ADD SOIL AMENDMENTS AS NECESSARY, AS DIRECTED BY PROJECT MANAGER. WATER THOROUGHLY TO ELIMINATE AIR POCKETS. DO NOT TAMP. |

PLANTING NOTES

- A. RETAIN NATURAL SHAPE. DO NOT SHEAR OR CUT CENTRAL LEADER. TREES WITH CENTRAL LEADERS ARE NOT ACCEPTED IF LEADER IS DAMAGED OR REMOVED.
- B. PRUNE DAMAGED TWIGS OR DOUBLE LIMBS AFTER PLANTING
- C. WRAP TREES TO FIRST BRANCH IF PLANTED IN FALL. DO NOT WRAP IF PLANTED IN SPRING.

- D. PLACE TREE BALL ON FIRM UNDISTURBED SOIL.
- E. REMOVE ANY TWINE, ROPE, FLAGGING, WRAPPING OR GUARDS FROM THE TREE.

TREE PLANTING DETAIL  
N.T.S.

F. AFTER SETTING BALL IN HOLE, CUT AWAY OR REMOVE THE ENTIRE WIRE BASKET. CUT OR REMOVE ALL ROPES OR TWINE FROM THE ROOT BALL. CUT AWAY OR REMOVE BURLAP IF ROOTBALL BEGINS FALLING APART DURING INSTALLATION OR WHILE REMOVING THE WIRE BASKET. CUT AWAY ONLY 1/2 OF THE BURLAP.

PRIMROSE SCHOOL  
SITE IMPROVEMENT PLANS  
LANDSCAPE PLAN

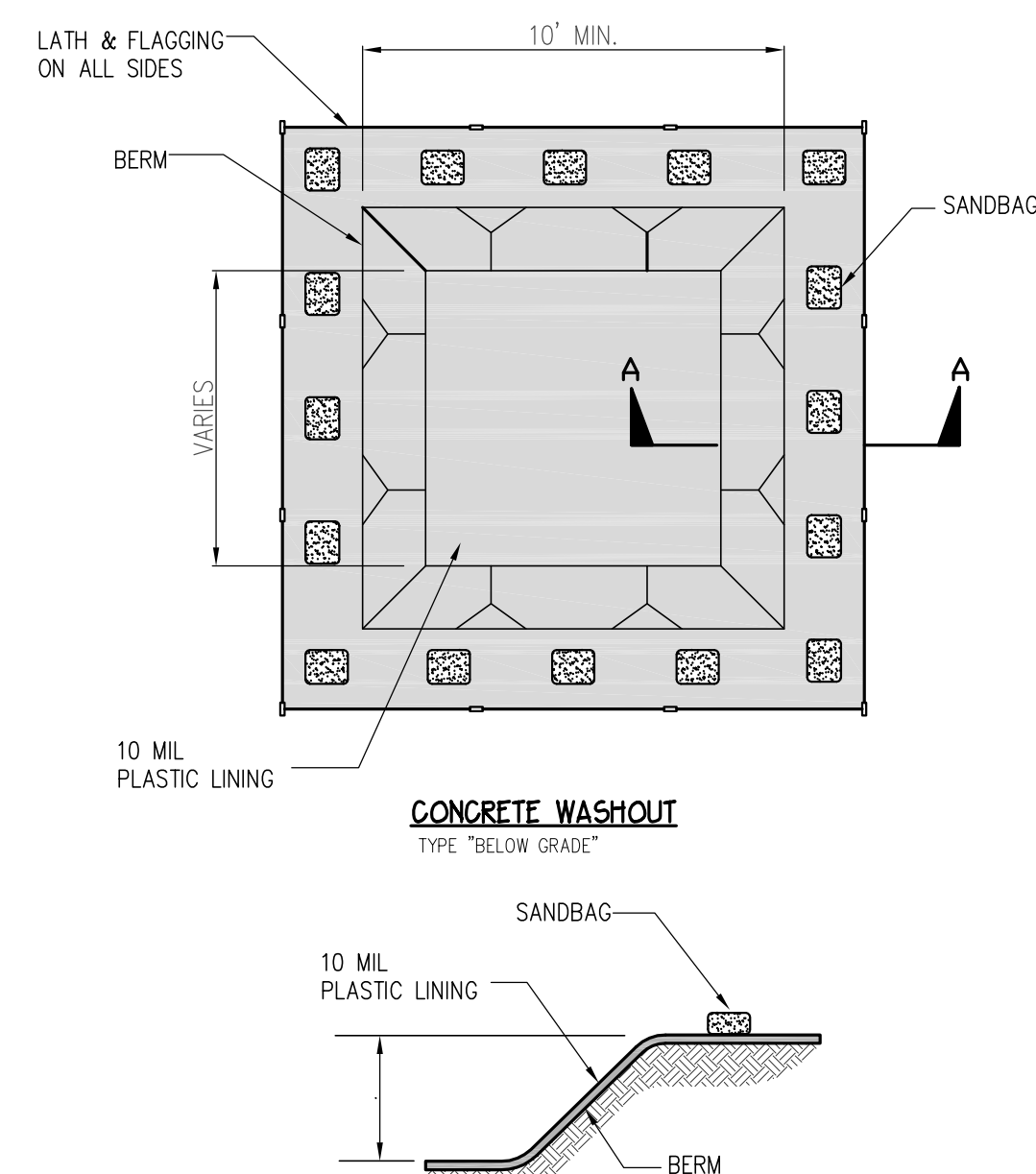
ROGERS, ARKANSAS



DRAWING NO

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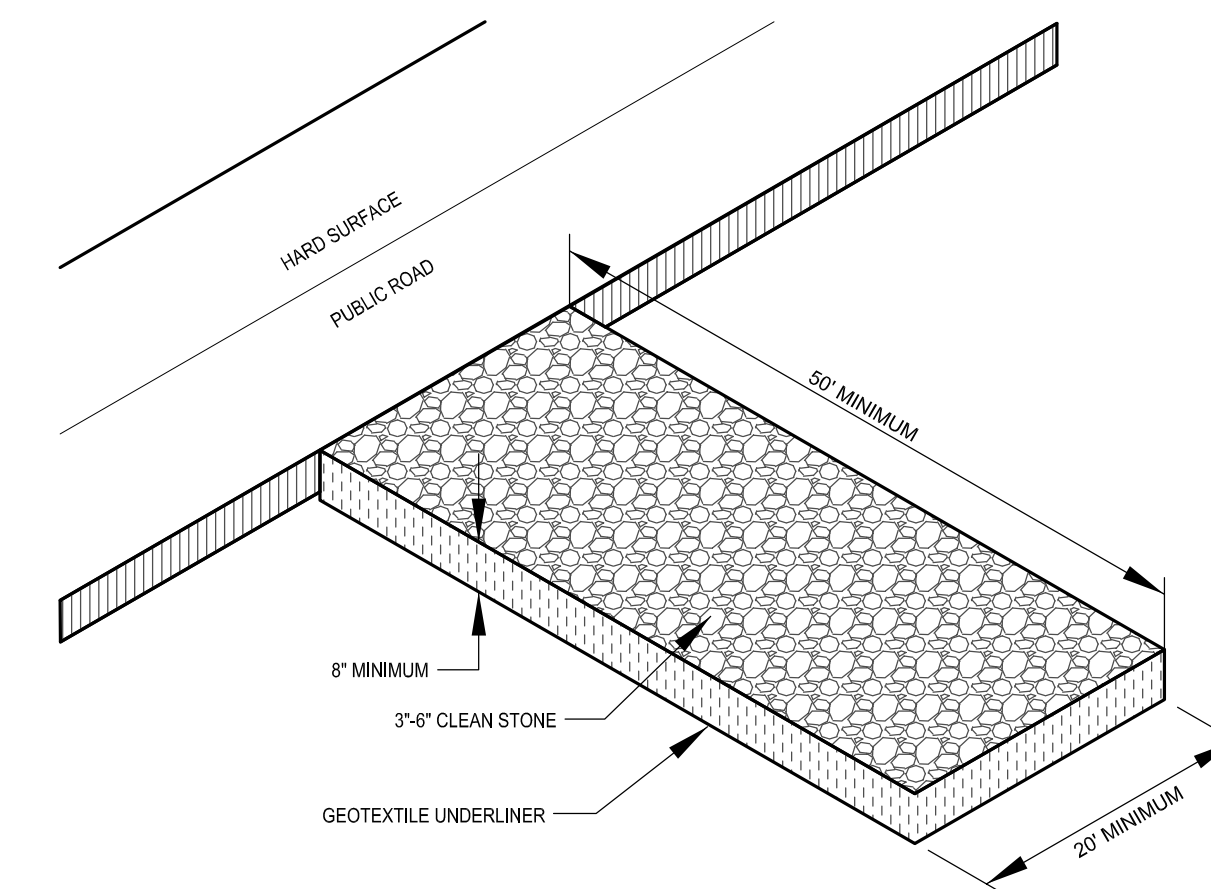
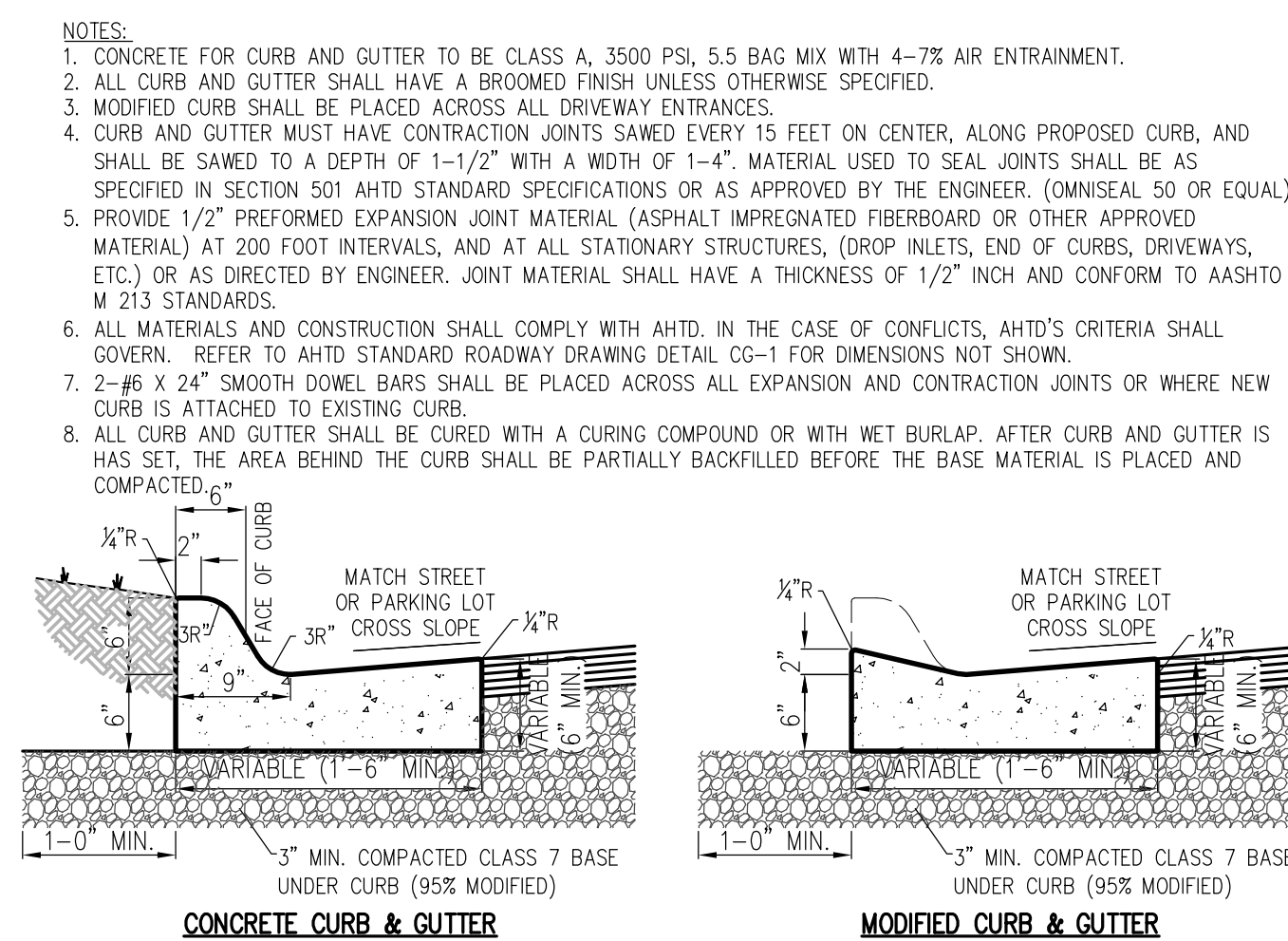
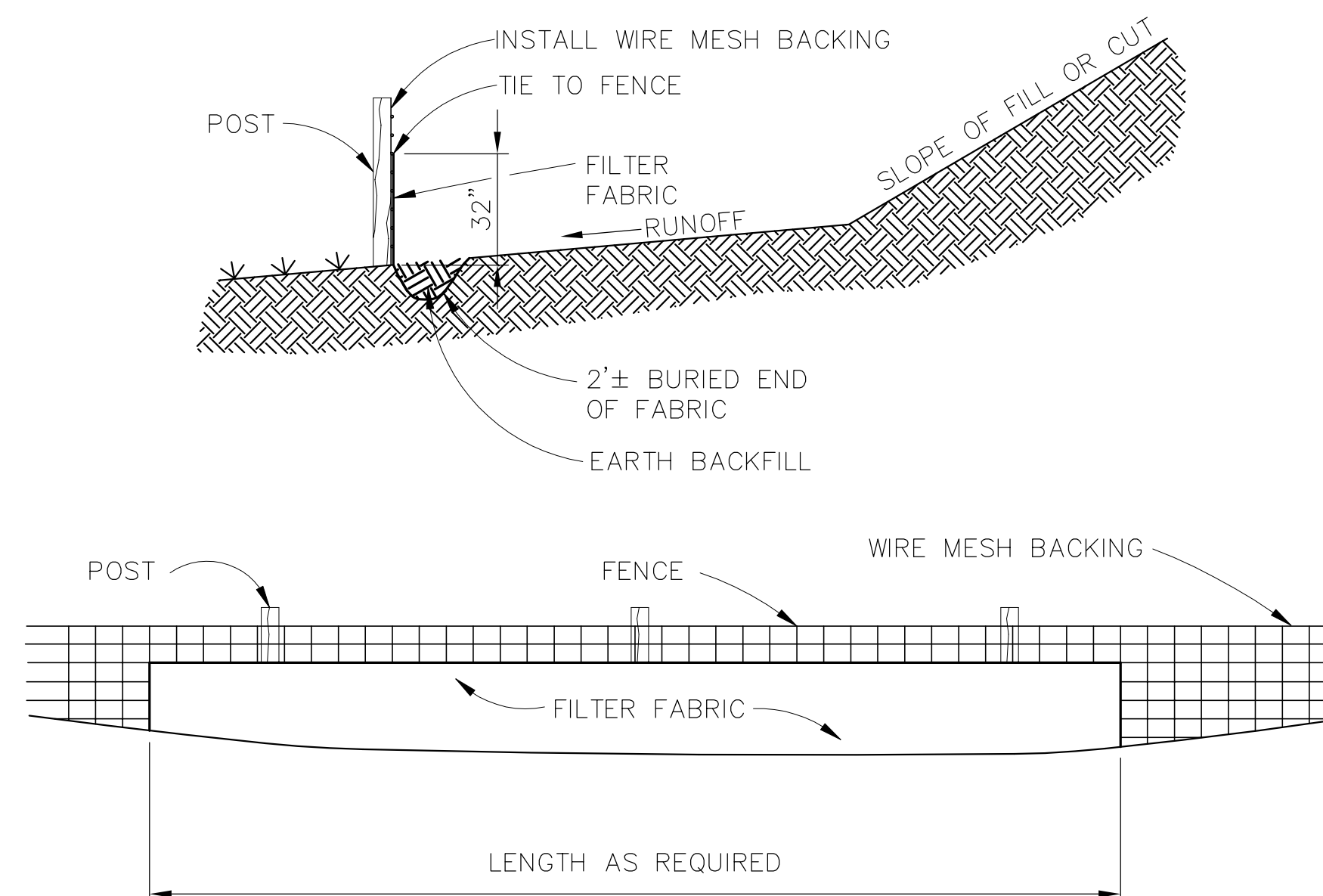
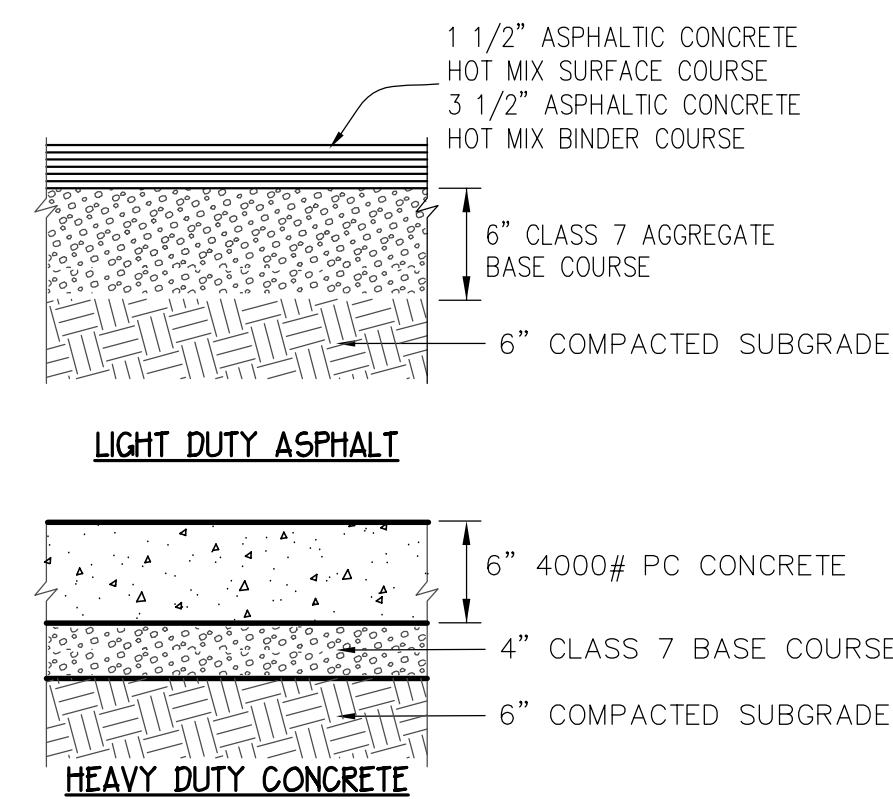
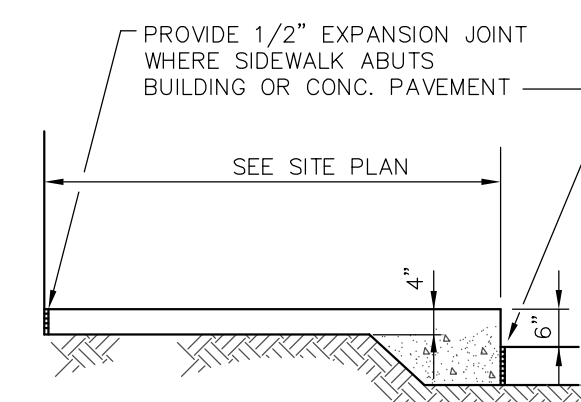
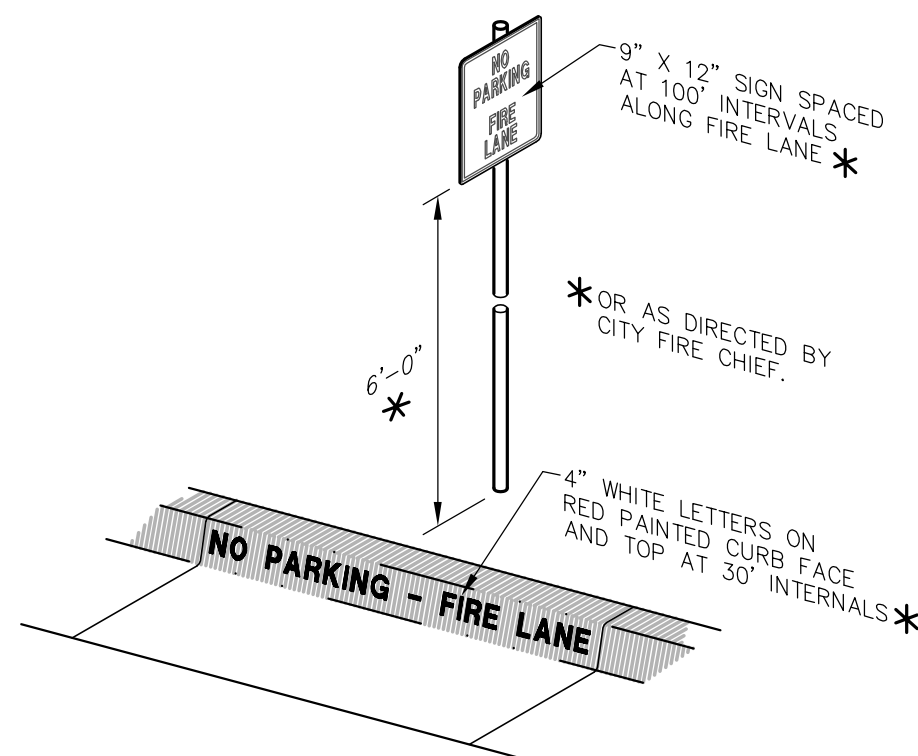
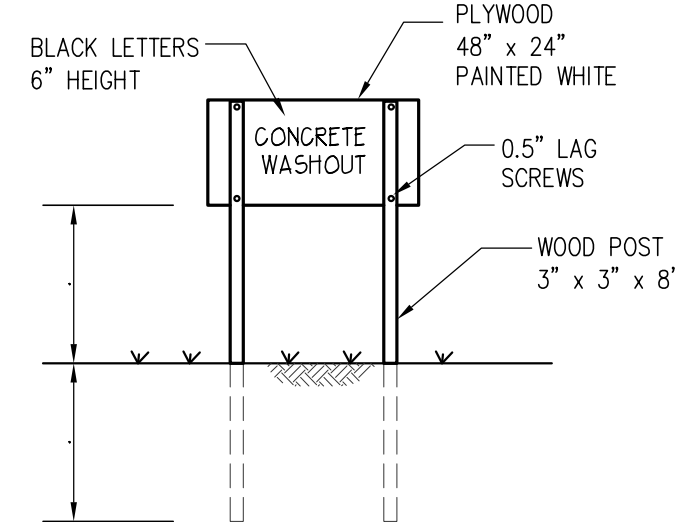
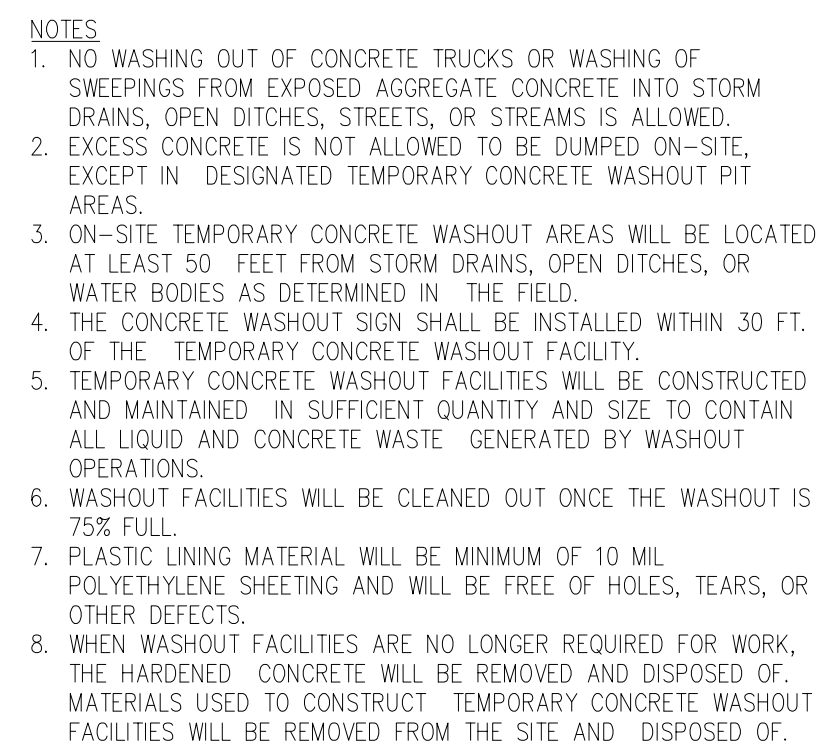




SECTION A-A

### CONCRETE WASTE MANAGEMENT DETAIL

N.T.S.

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# PRIMROSE SCHOOL SITE IMPROVEMENT PLANS SITE DETAILS

ROGERS, ARKANSAS



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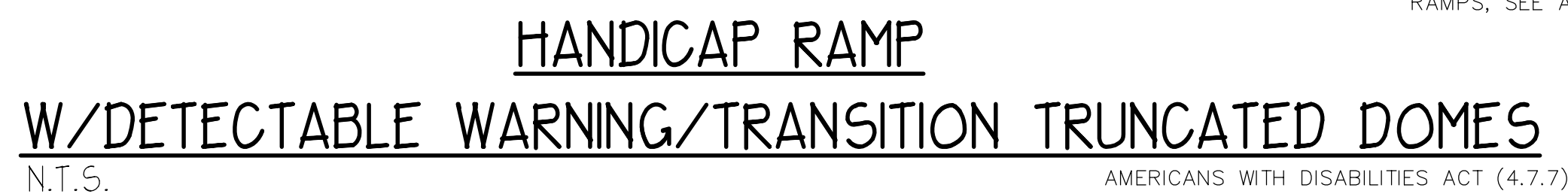
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Cell 479 521 9351 • Email [nwabatesing@nwabatesing.com](mailto:nwabatesing@nwabatesing.com)

The seal is circular with a double-lined border. The outer ring contains the text "STATE OF ARKANSAS" at the top and "GEOFFREY H. BATES" at the bottom. The inner circle contains the text "REGISTERED PROFESSIONAL ENGINEER" in the center, "No. 9810" below it, and "EXPIRES 12/31/2015" at the bottom.

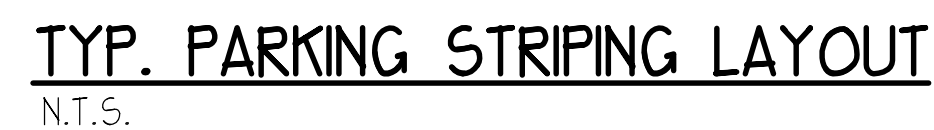
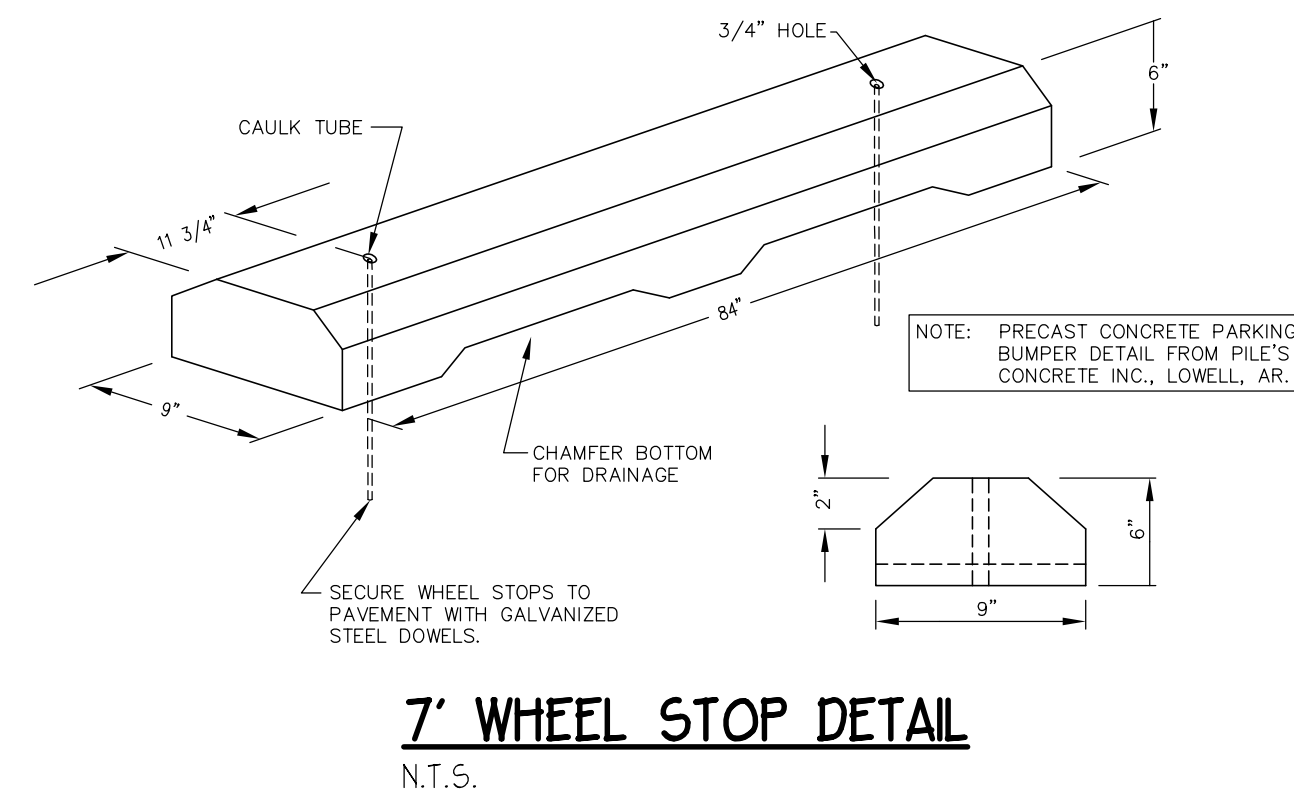




- 
- 18"x24" 0.080 ALUMINUM  
HANDICAP SYMBOL,  
SIMILAR TO 09A345  
SARGENT-SOWELL, INC.,  
GRAND PRAIRIE, TEXAS.
- 12"x6" VAN ACCESSIBLE SIGNAGE  
WHERE APPROPRIATE. SIMILAR TO  
09A626, SARGENT-SOWELL, INC.,  
GRAND PRAIRIE, TEXAS.
- 2 3/8" O.D. STEEL TUBING GALV.  
TUBULAR SIGN POSTS SIMILAR TO  
03C097, SARGENT-SOWELL, INC.,  
GRAND PRAIRIE, TEXAS.  
ANCHORED 18" INTO CONCRETE
- SIGN TO BE CENTERED ON  
HANDICAP PARKING SPACE
- 48" ABOVE WALKING SURFACE
- RESERVED  
PARKING
- HANDICAP SYMBOL
- VAN  
ACCESSIBLE
- AMERICANS WITH DISABILITIES ACT (4.6.4)
- HANDICAP SIGN
- N.T.S.

[illegible]

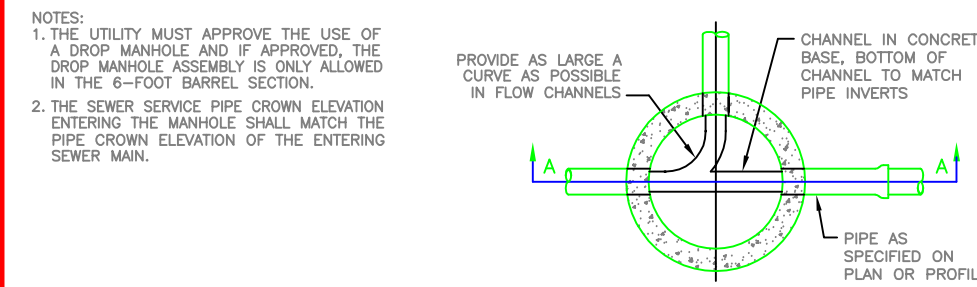
## HANDICAP PAVEMENT SYMBOL





SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

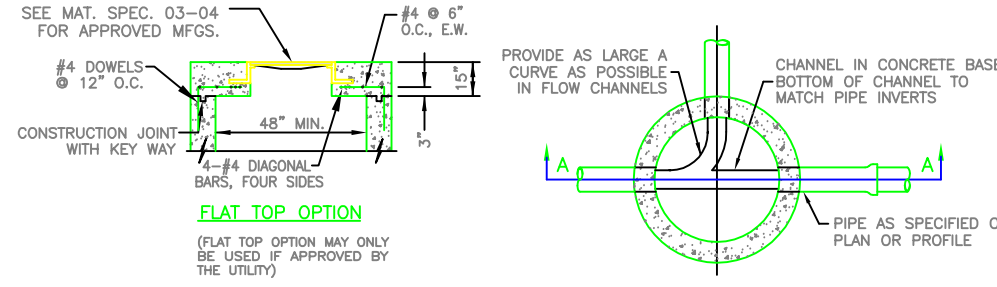
- NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL AT 12-FOOT ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12-INCH ON CENTER WITH 15" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
  2. THE BASE AND WALLS SHALL BE POURED MONOLITHICALLY.
  3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
  4. MANHOLES THAT ARE LESS THAN 12'-6" IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
  5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2-INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE. EXTEND MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12-INCH ON CENTER WITH 15" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
  6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
  7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
  8. BRUSH FRESH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.



6 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL

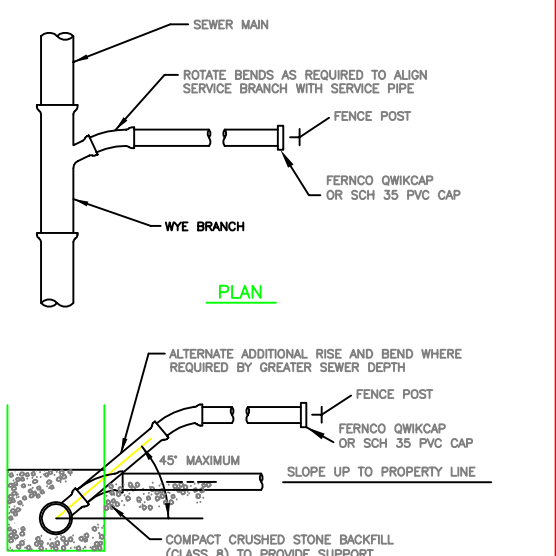
SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

- NOTES:
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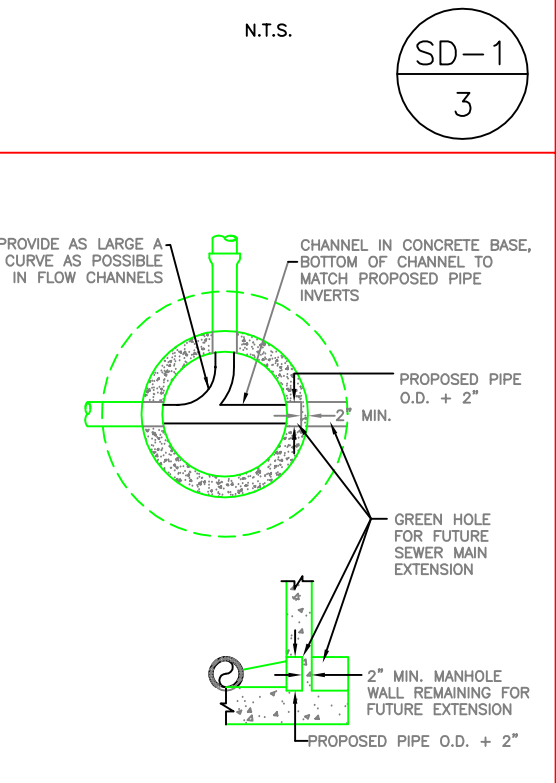


4 FT. CAST-IN-PLACE SANITARY SEWER MANHOLE DETAIL

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

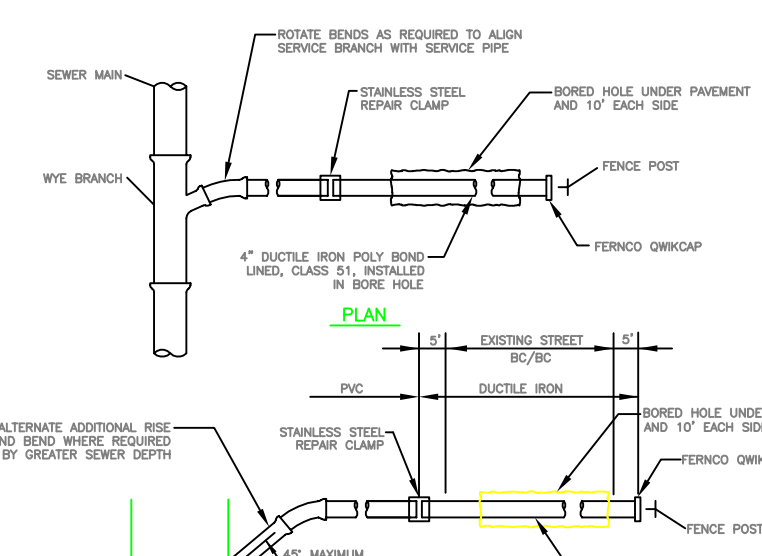


STANDARD SEWER SERVICE LATERAL

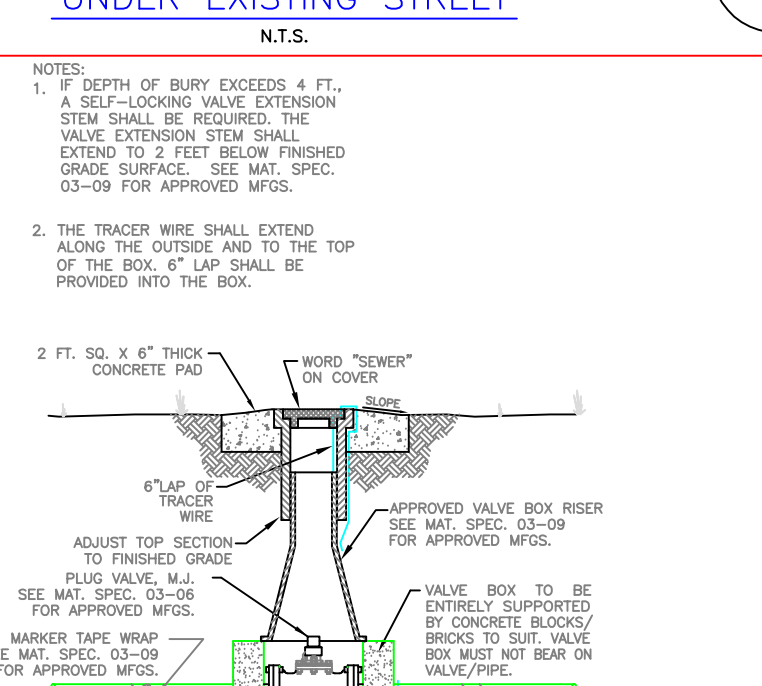


GREENHOLE/BLOCK OUT FOR FUTURE EXTENSION

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

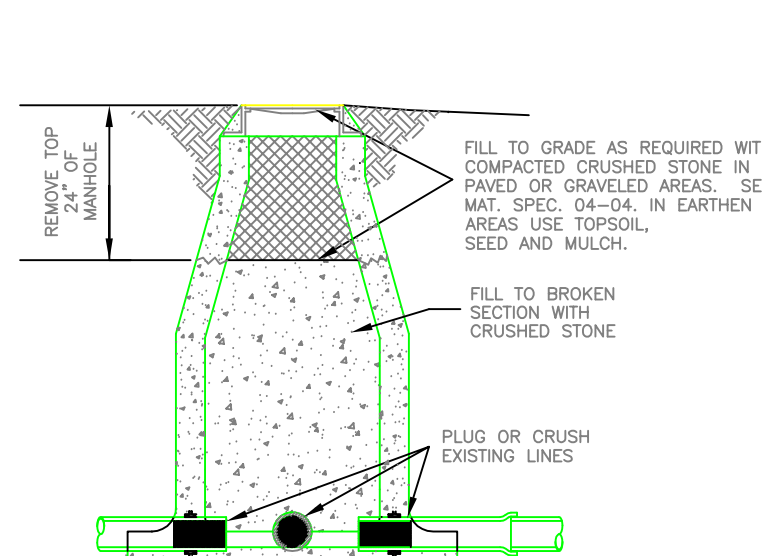


BORED SEWER SERVICE LATERAL UNDER EXISTING STREET

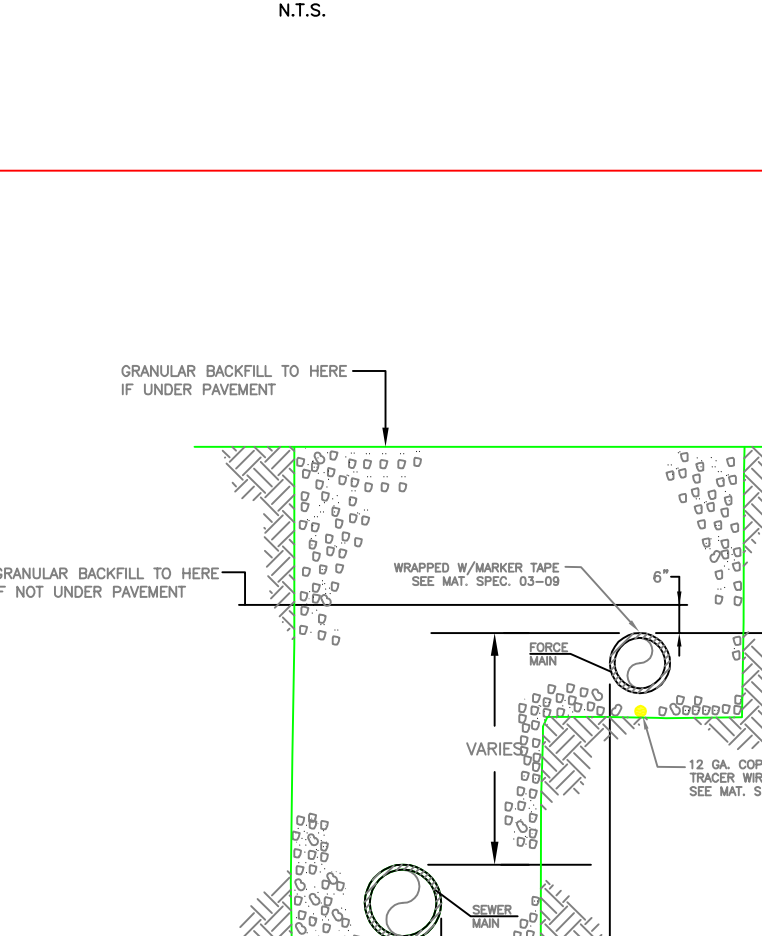


4'-12' SEWER FORCE MAIN PLUG VALVE DETAIL

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

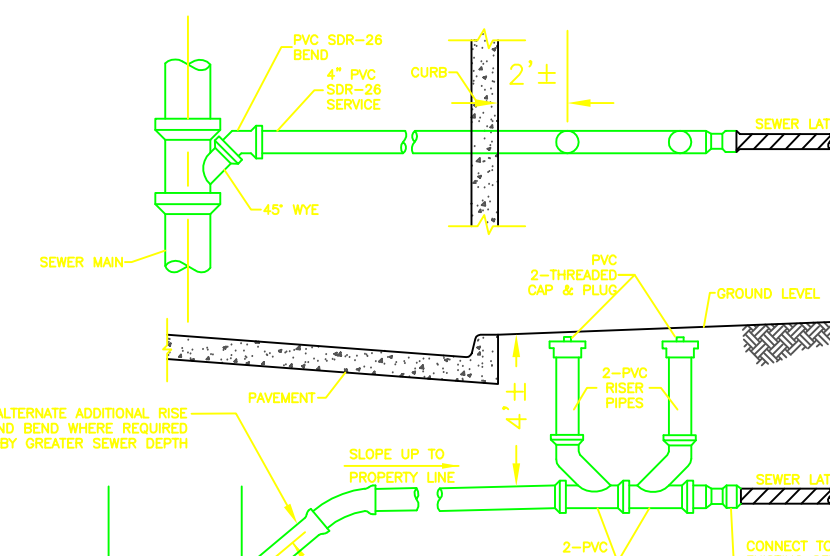


SANITARY SEWER MANHOLE ABANDONMENT

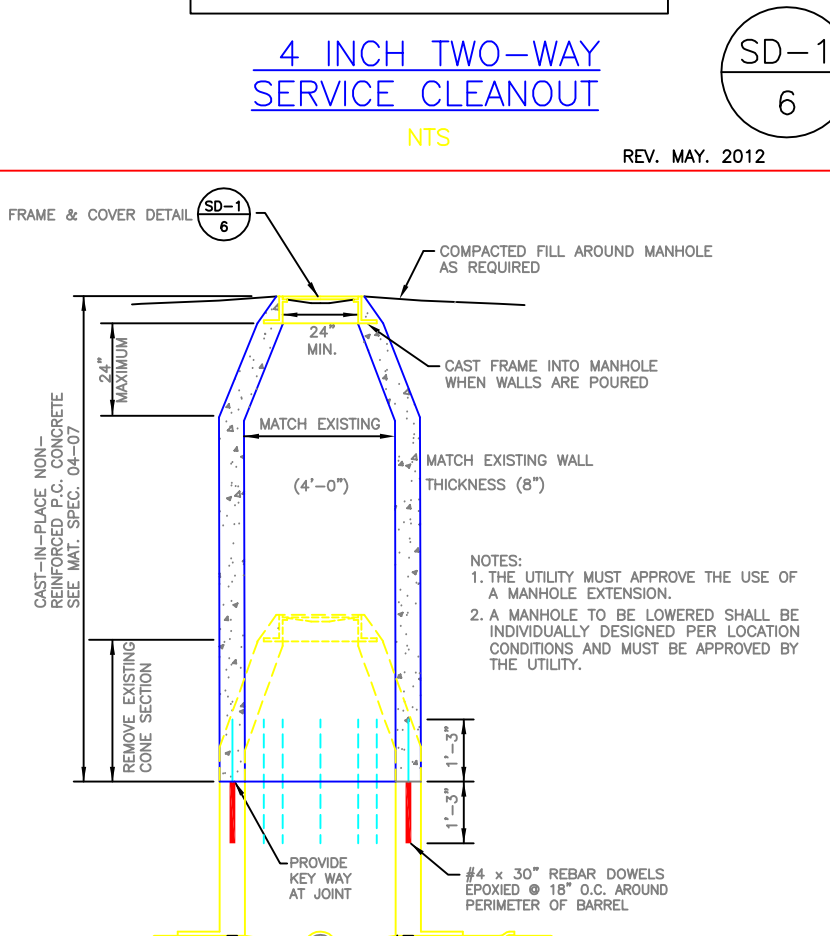


PARALLEL SEWER FORCE MAIN & SANITARY SEWER MAIN

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS

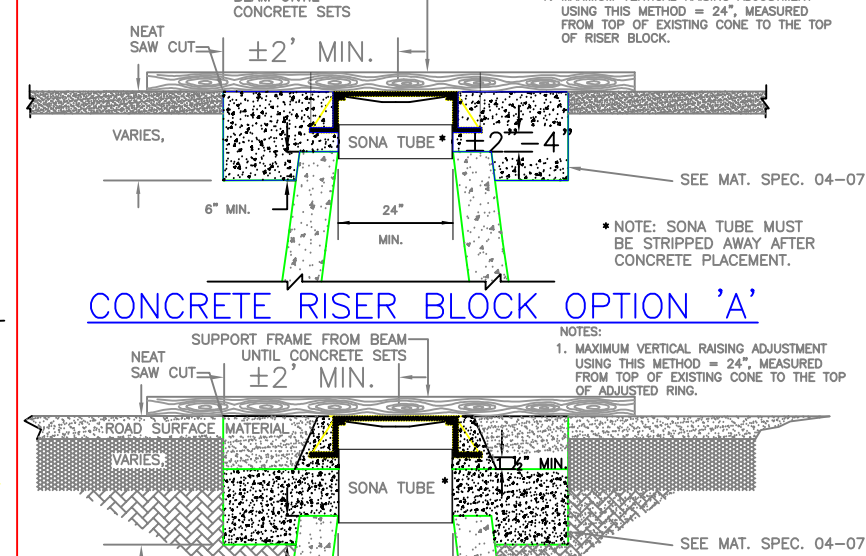


4 INCH TWO-WAY SERVICE CLEANOUT

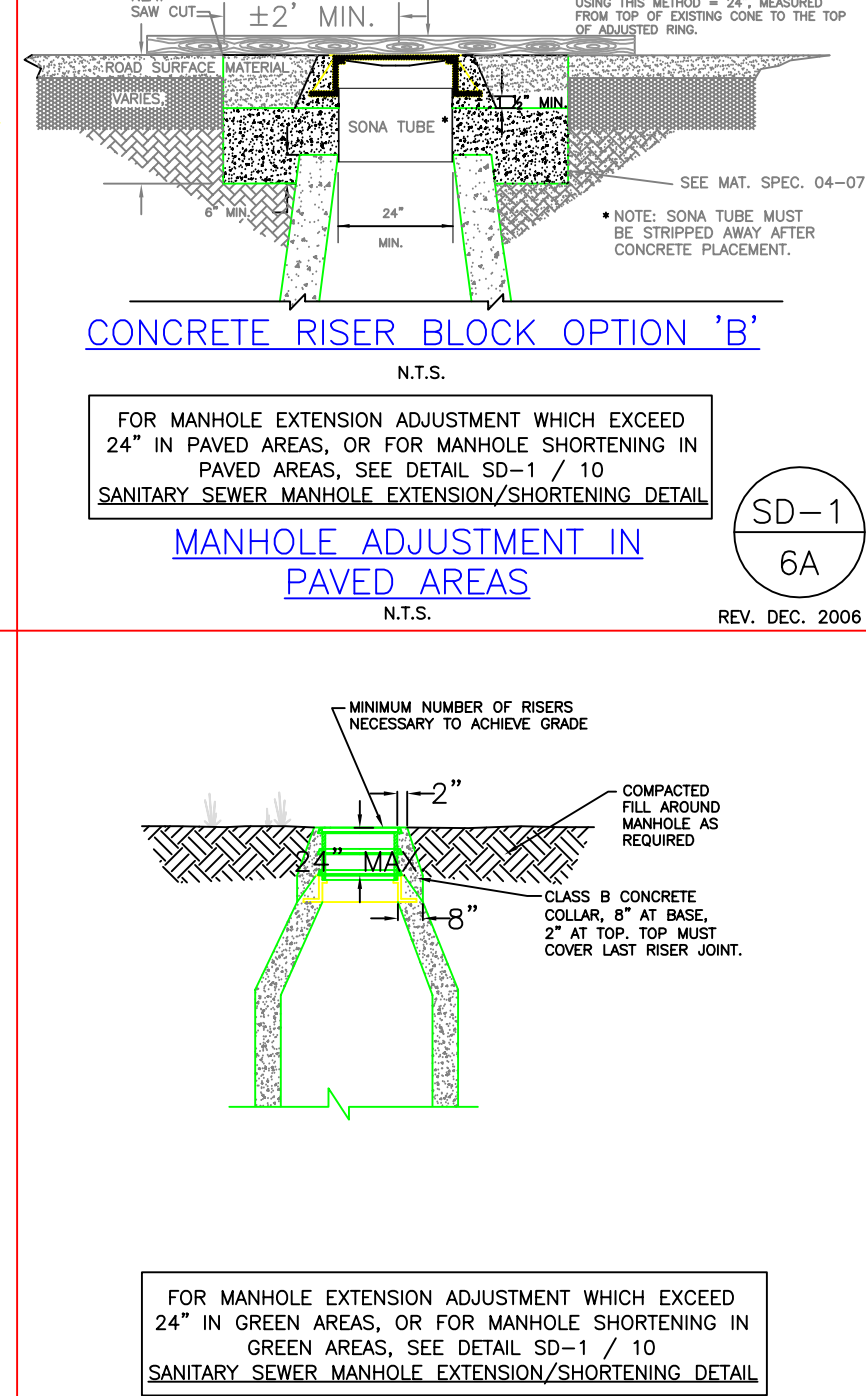


SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



CONCRETE RISER BLOCK OPTION 'A'



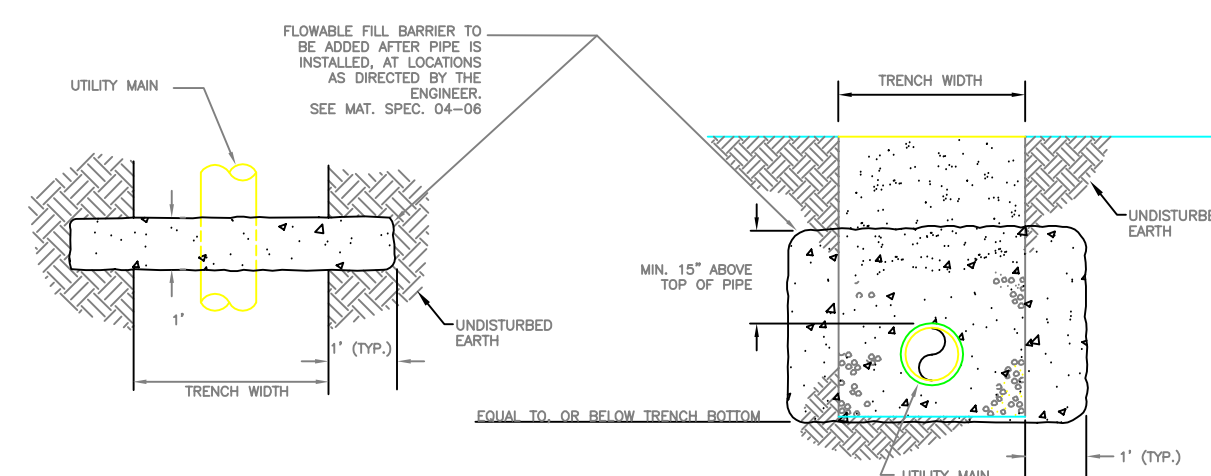
MANHOLE ADJUSTMENT IN GREEN AREAS

RESERVED

[HTTP://WWW.RWU.ORG/ENGINEERING.HTM](http://www.rwu.org/engineering.htm)

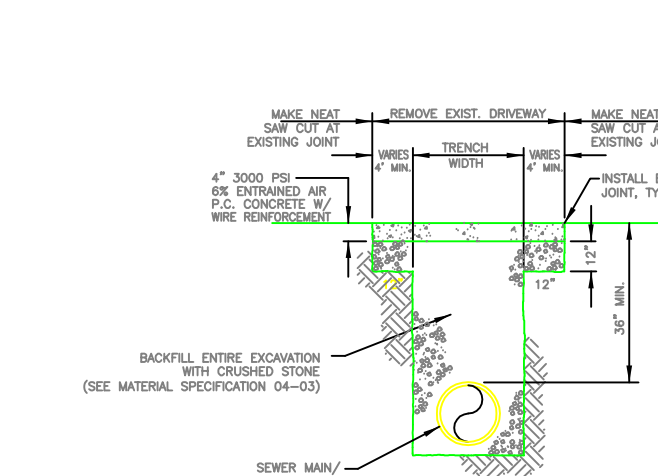
HYPERLINK TO RWU WEBSITE FROM ACTIVE .DWG FILE (HOLD DOWN 'CONTROL KEY' AND LEFT-MOUSE-BUTTON-SELECT THE UNDERLINED LINK)

RESERVED



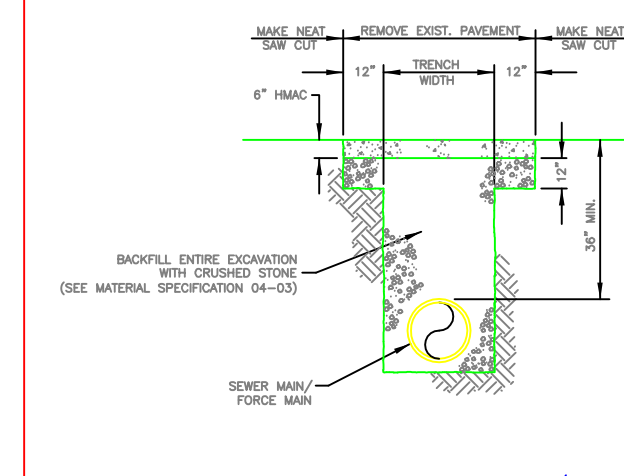
ANTI-SEEPAGE BARRIER COLUMN

RESERVED



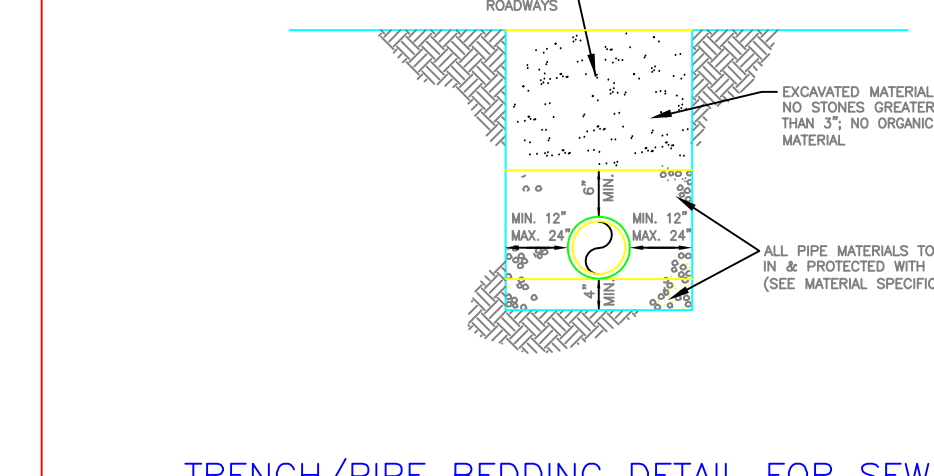
CONCRETE DRIVEWAY CROSSING REPAIR

RESERVED



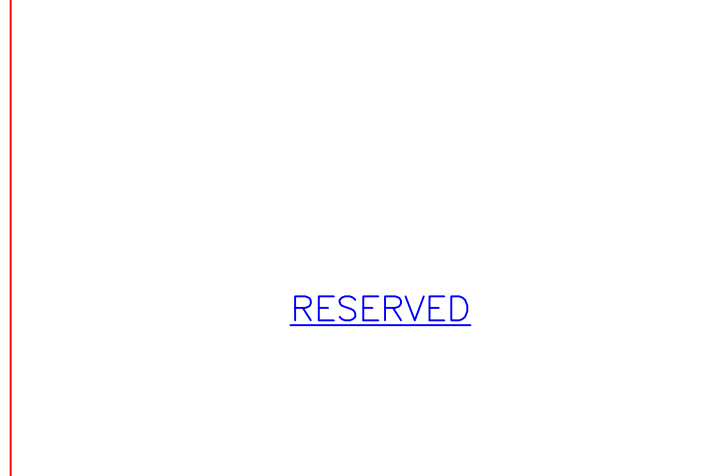
ASPHALT DRIVEWAY/STREET CROSSING REPAIR

RESERVED



TRENCH/PIPE BEDDING DETAIL FOR SEWER FORCE MAINS & SANITARY SEWER MAINS

RESERVED



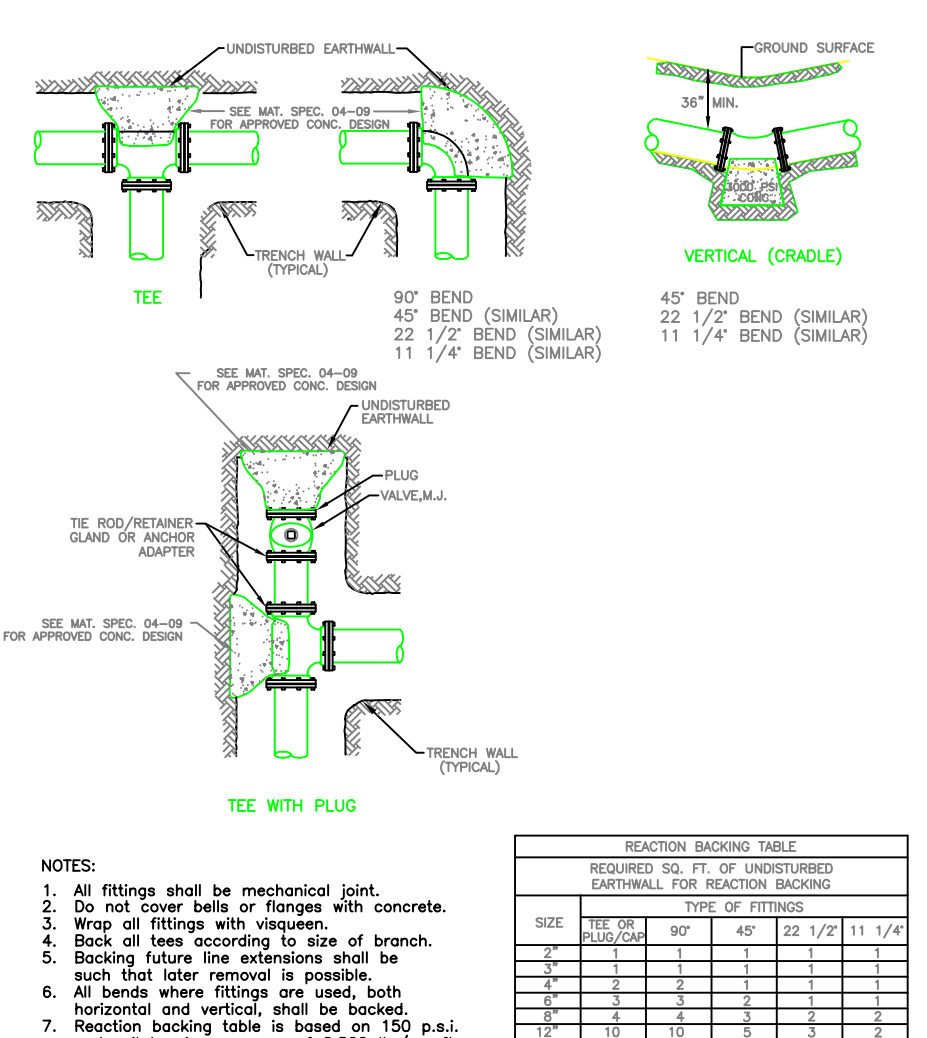
TRENCH/PIPE BEDDING DETAIL FOR SEWER FORCE MAINS & SANITARY SEWER MAINS

RESERVED

GENERAL CONSTRUCTION NOTES:

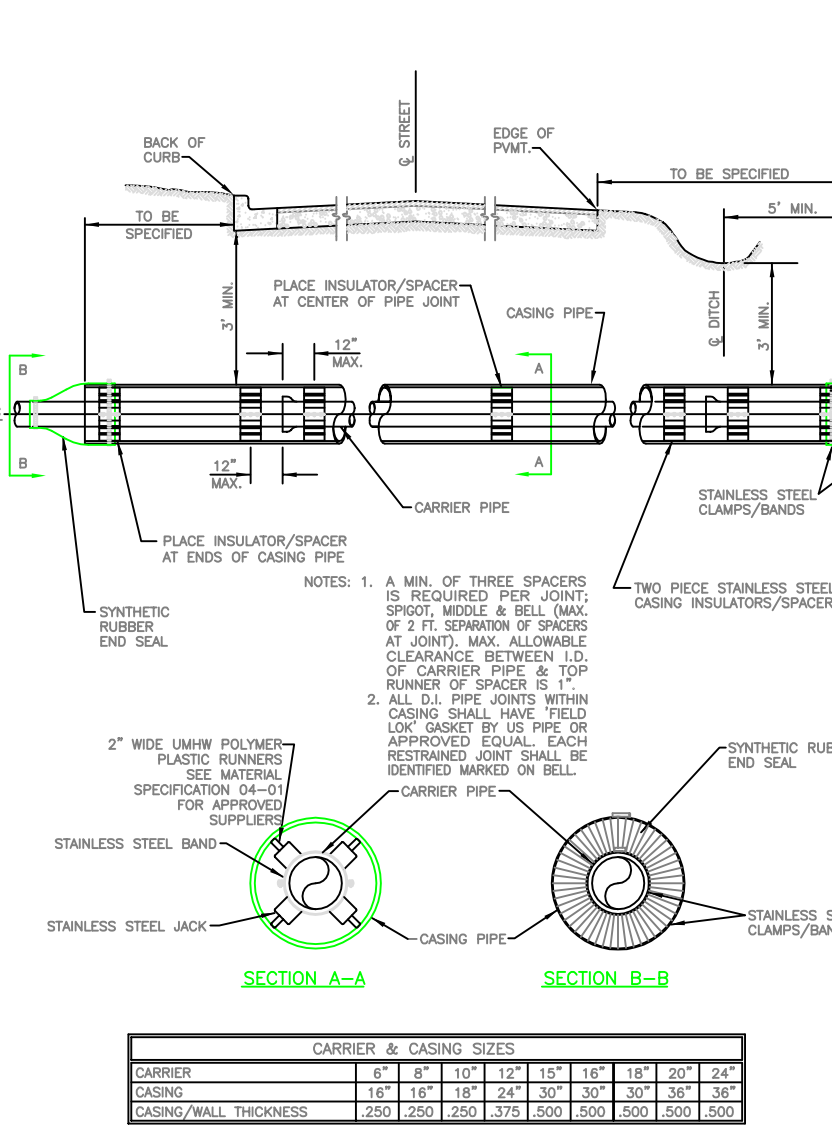
- A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary precautions to prevent property damage.
- B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.  
The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.
- C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.
- D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.
- E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.
- F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.
- G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said contractor shall not operate any valve, hydrant, or water utility appearance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



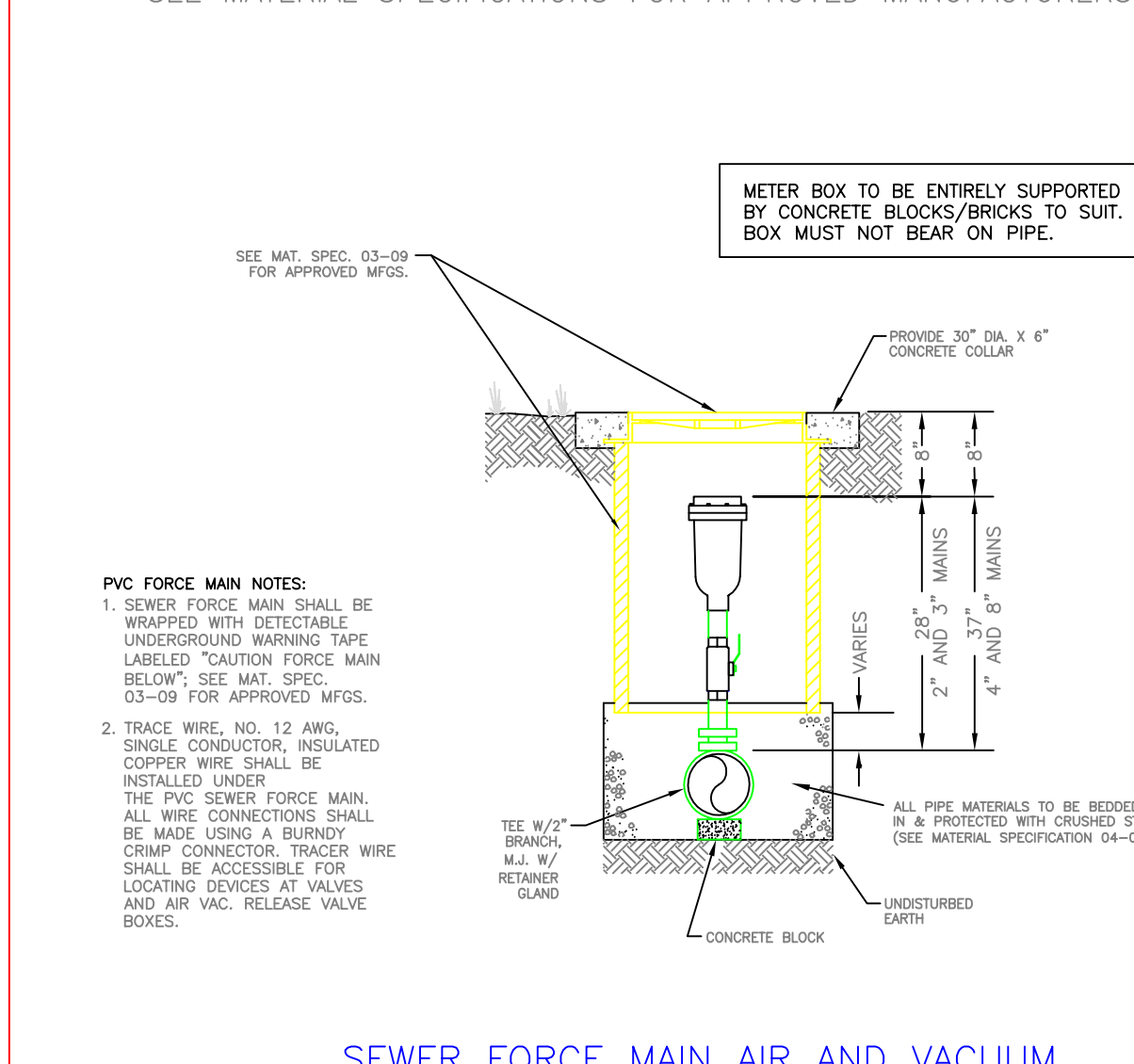
SEWER FORCE MAIN THRUST BLOCKING DETAIL

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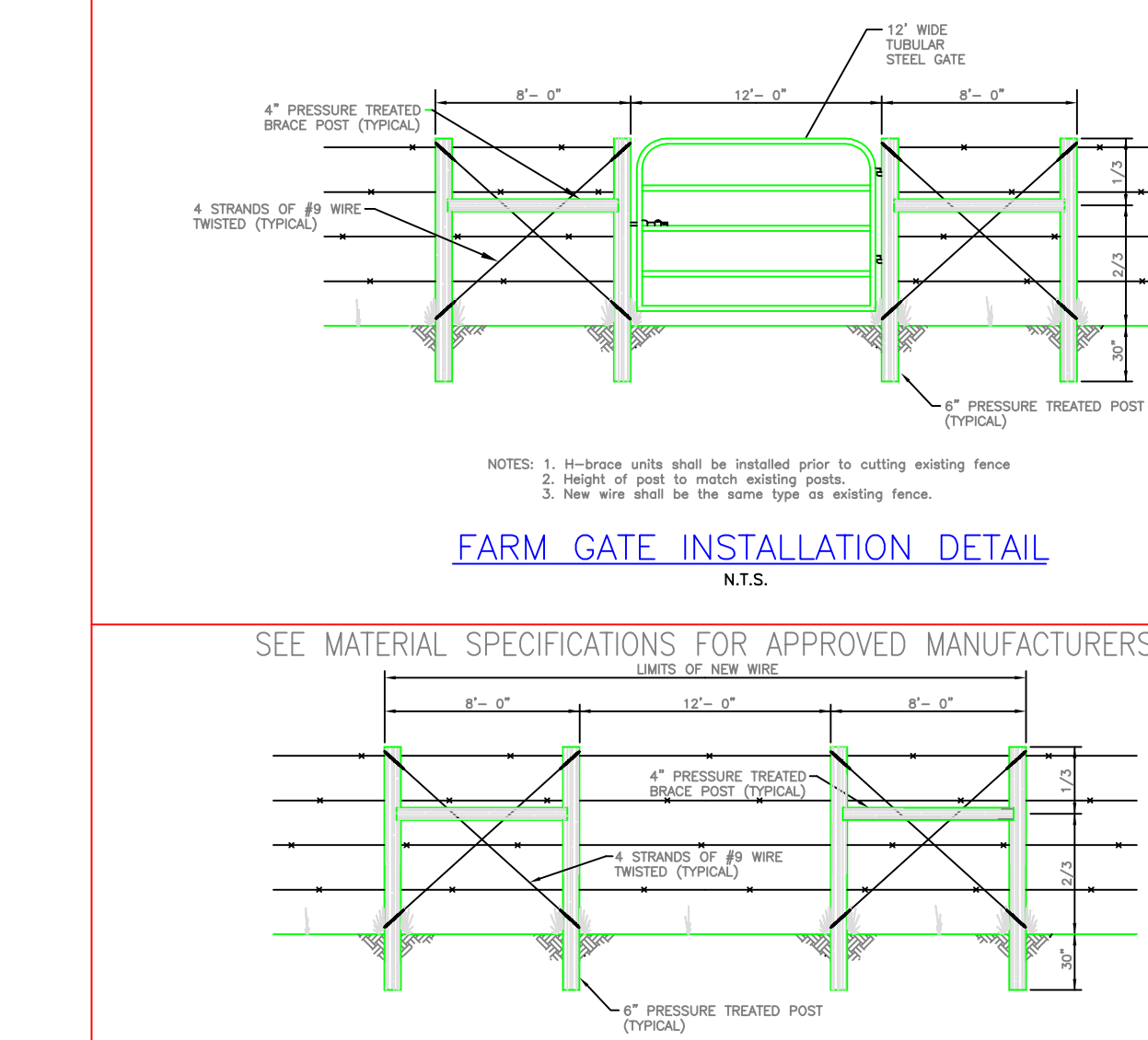
JACK & BORE UNDER ROADWAY DETAIL

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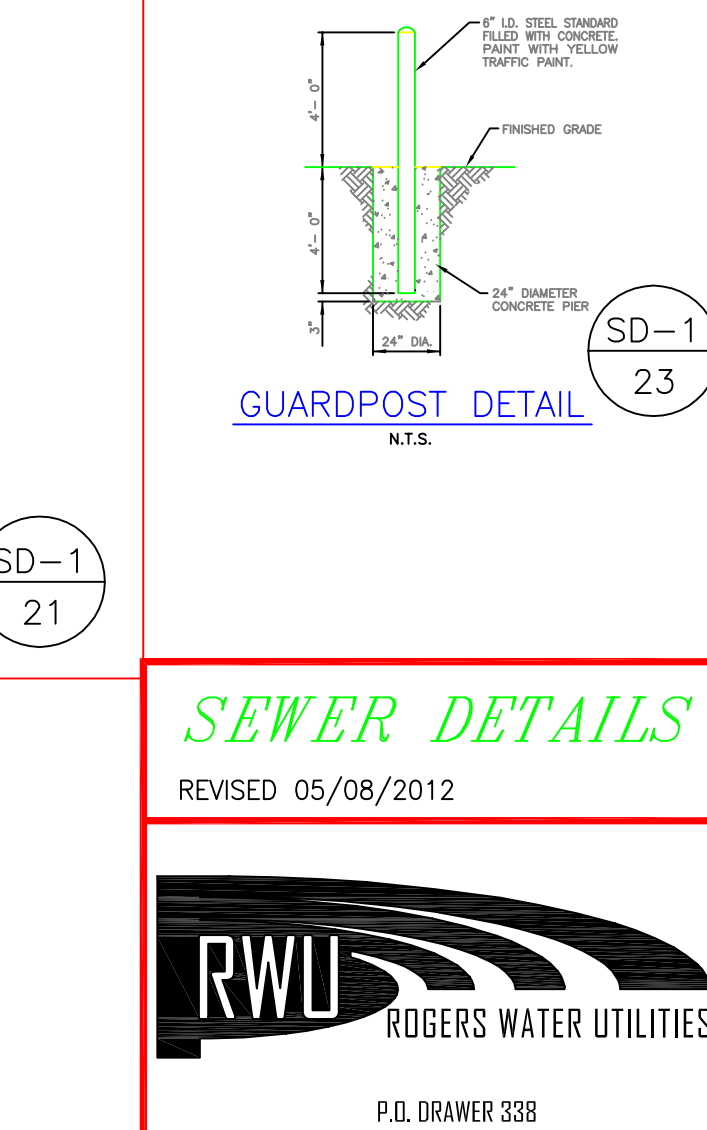
SEWER FORCE MAIN AIR AND VACUUM RELEASE VALVE ASSEMBLY

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BARBED WIRE FENCE CROSSING REPAIR DETAIL

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GUARDPOST DETAIL

SEWER DETAILS

REVISED 05/08/2012

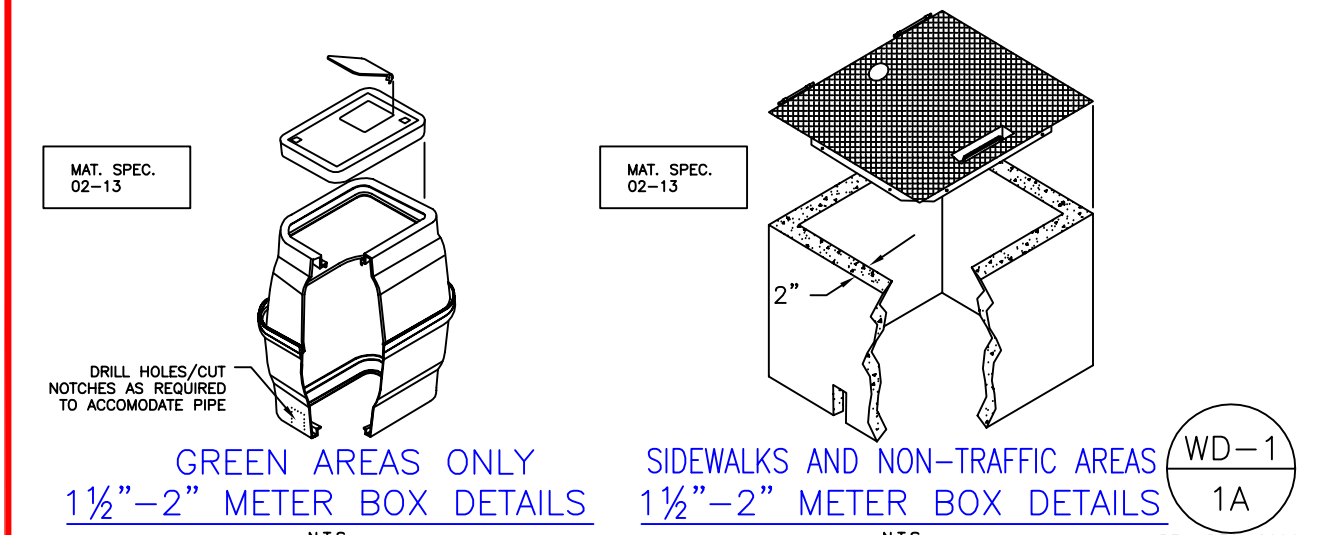


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72757-0338

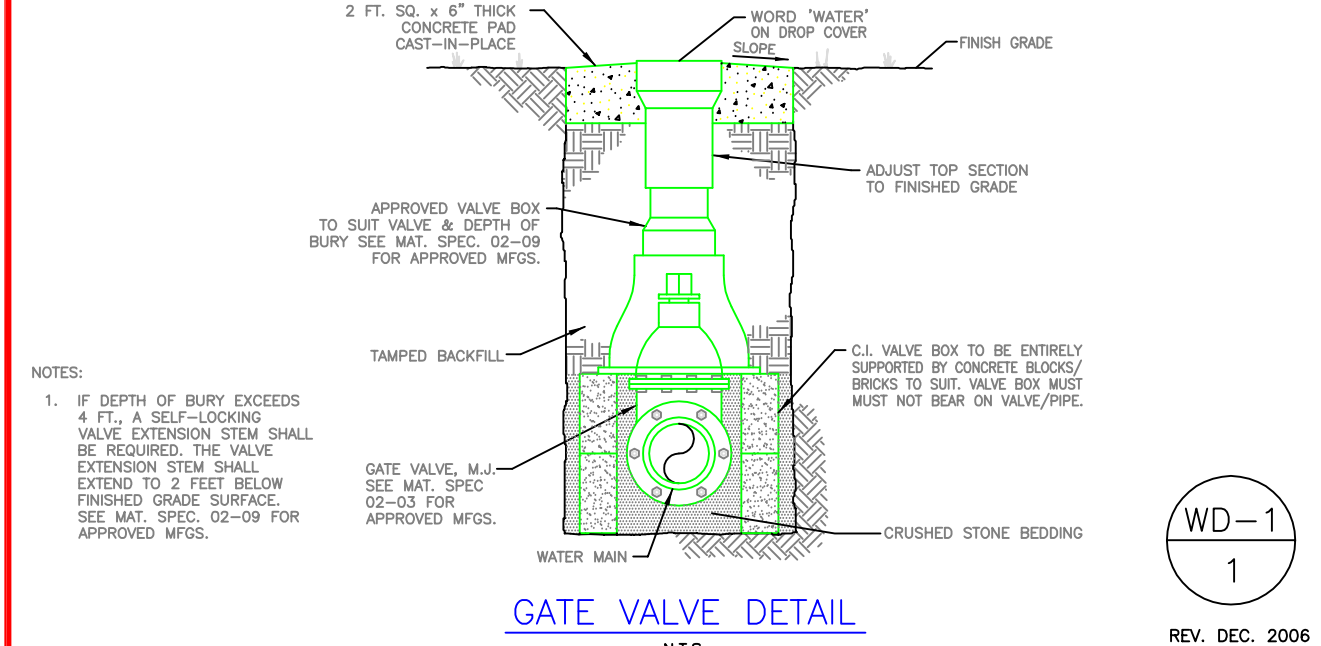
DRAWN BY: *DDG* DATE: *REV. AUG. /2007* SHEET NO. *SD-1*  
CHECKED BY: *EB* PROJECT NUMBER: *STANDARD SEWER DETAILS*



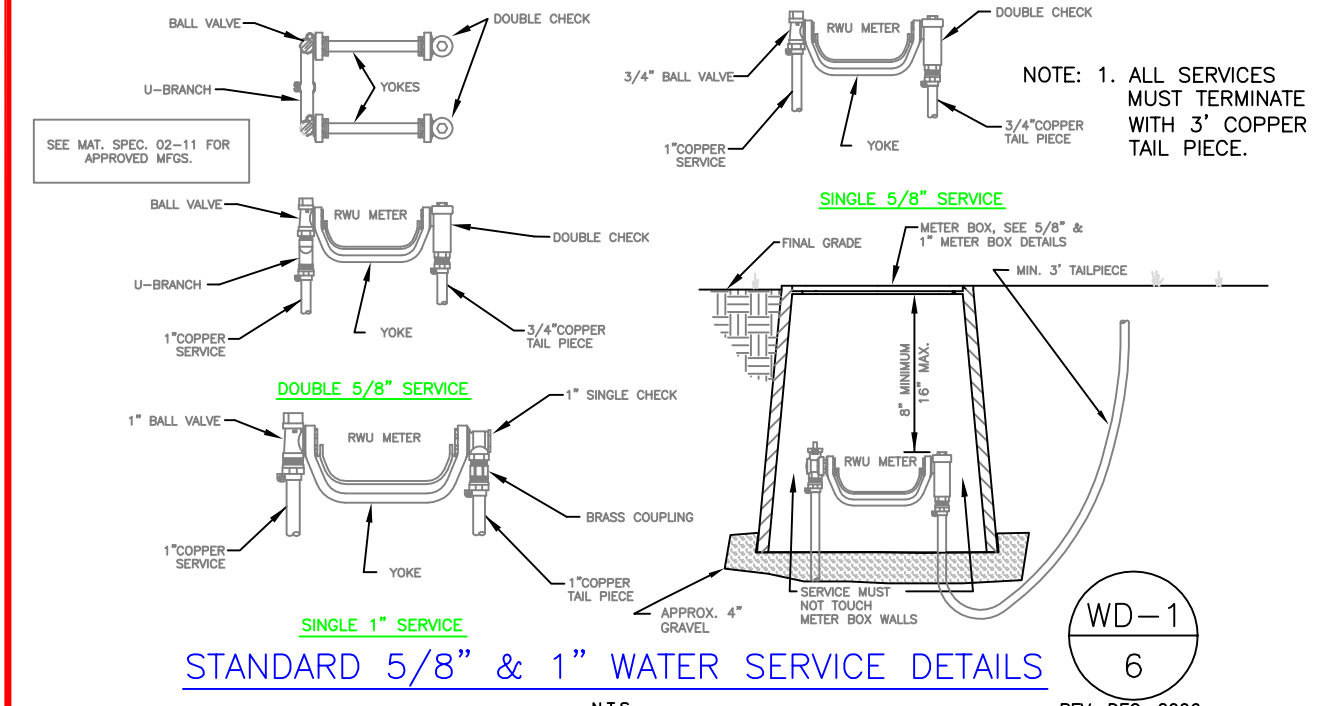
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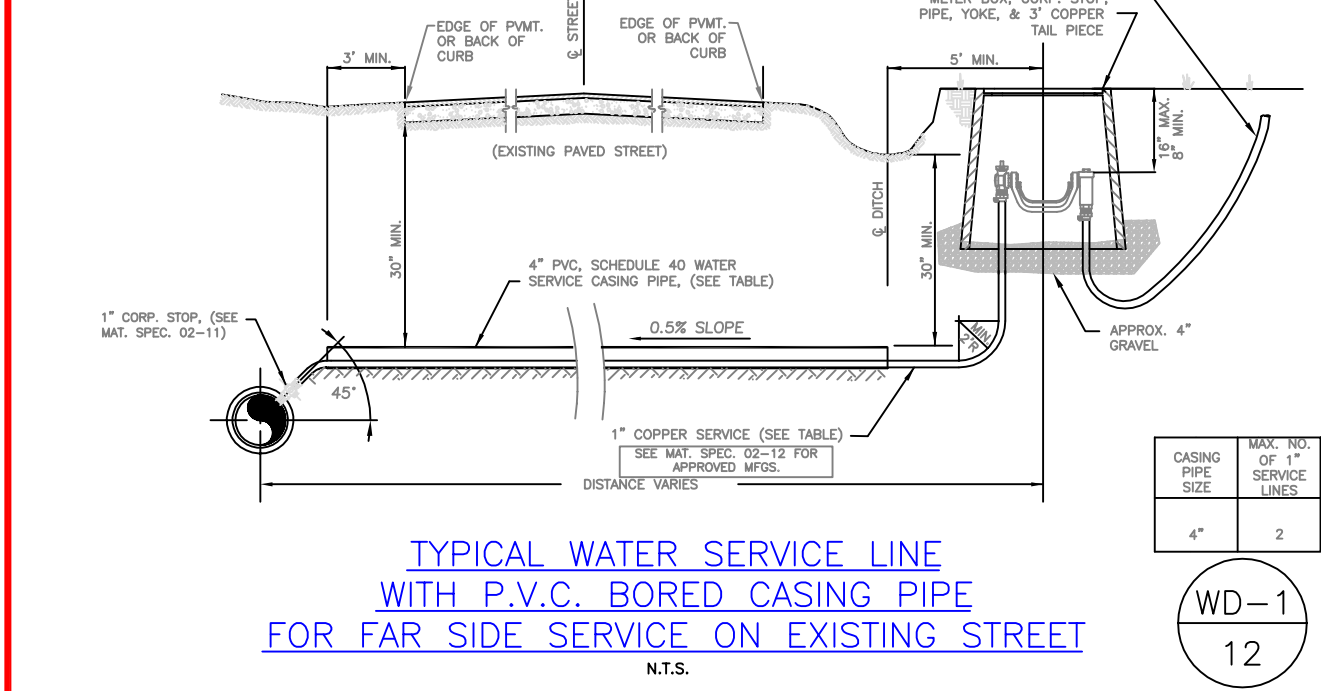
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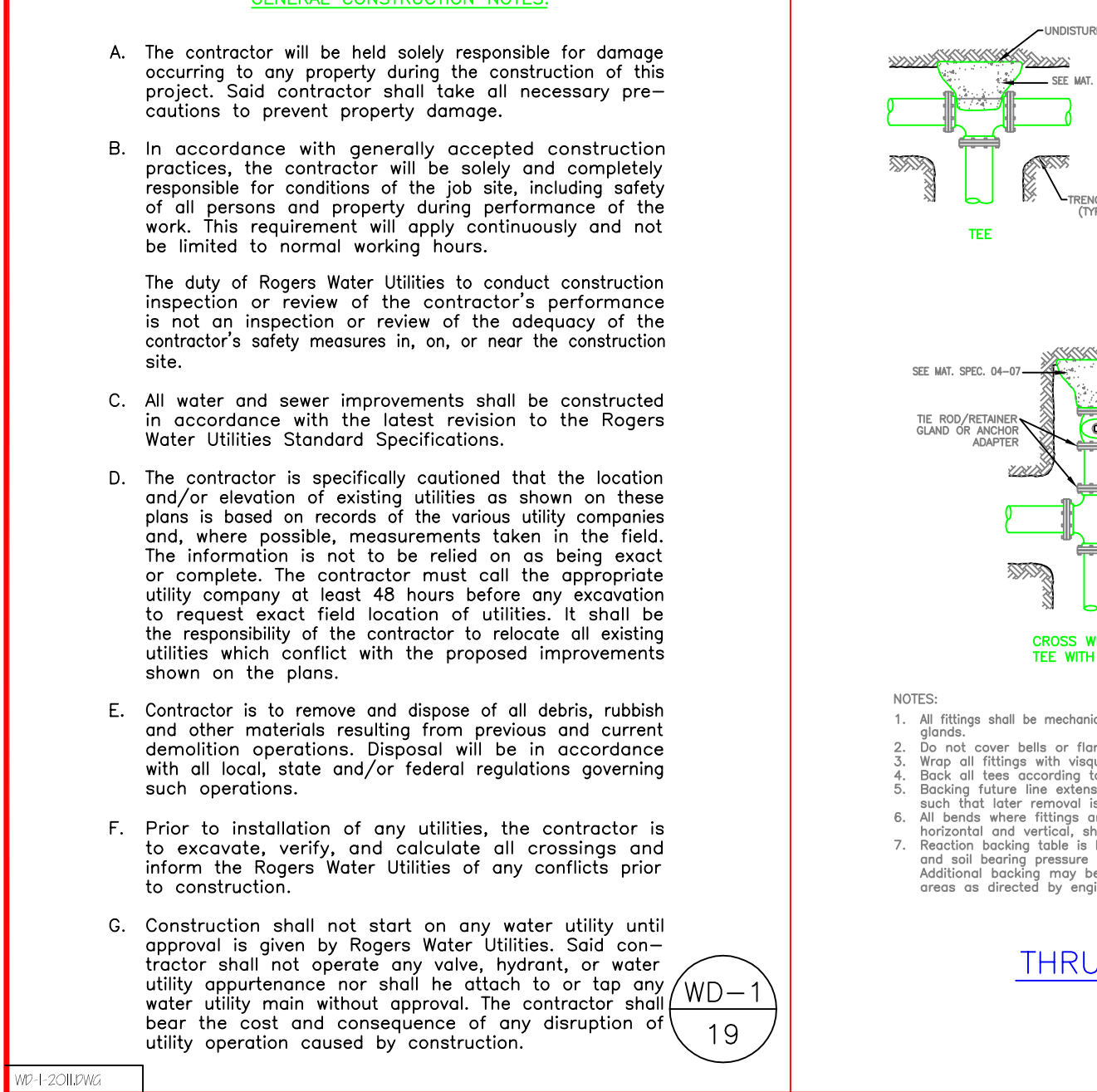
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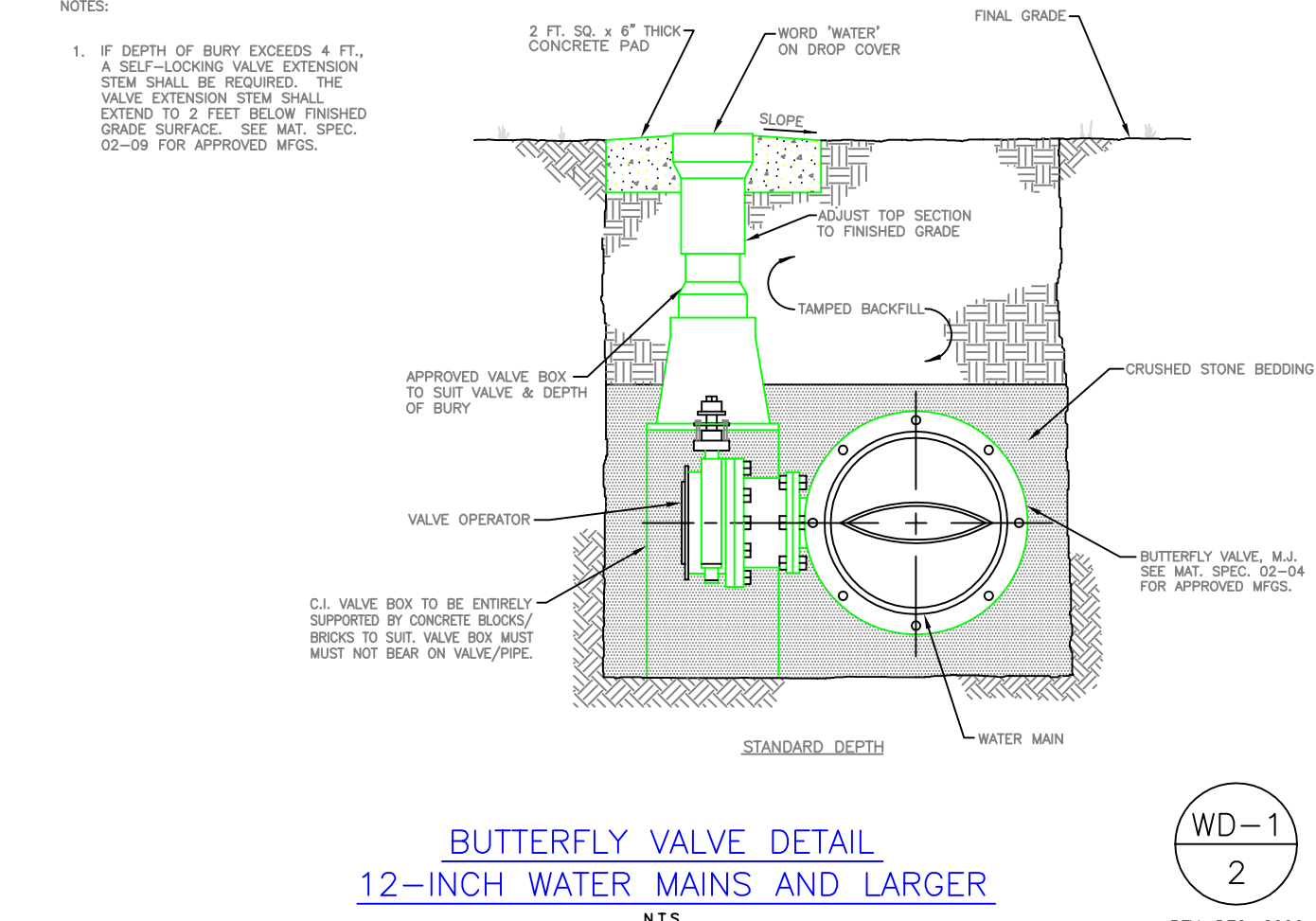
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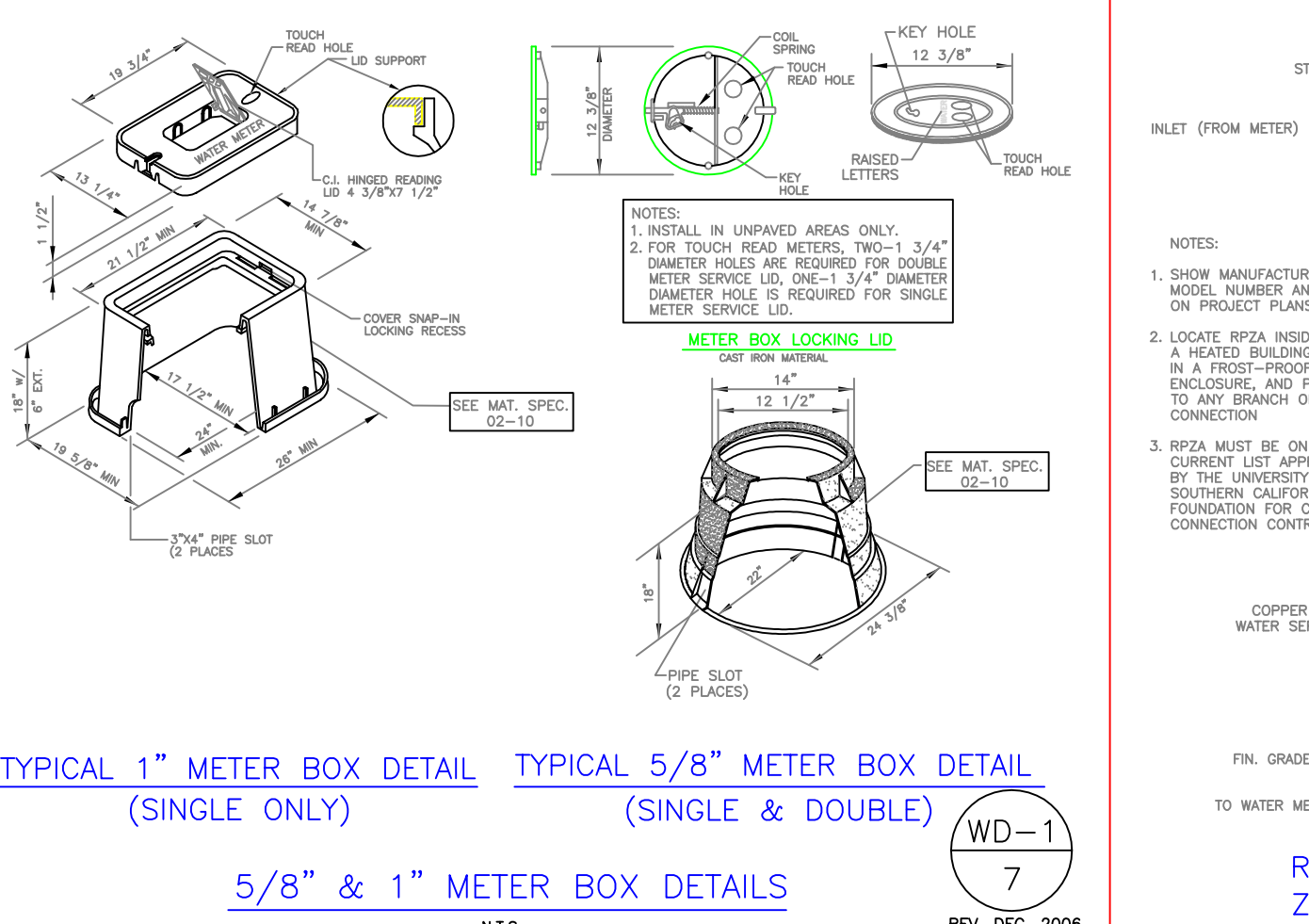
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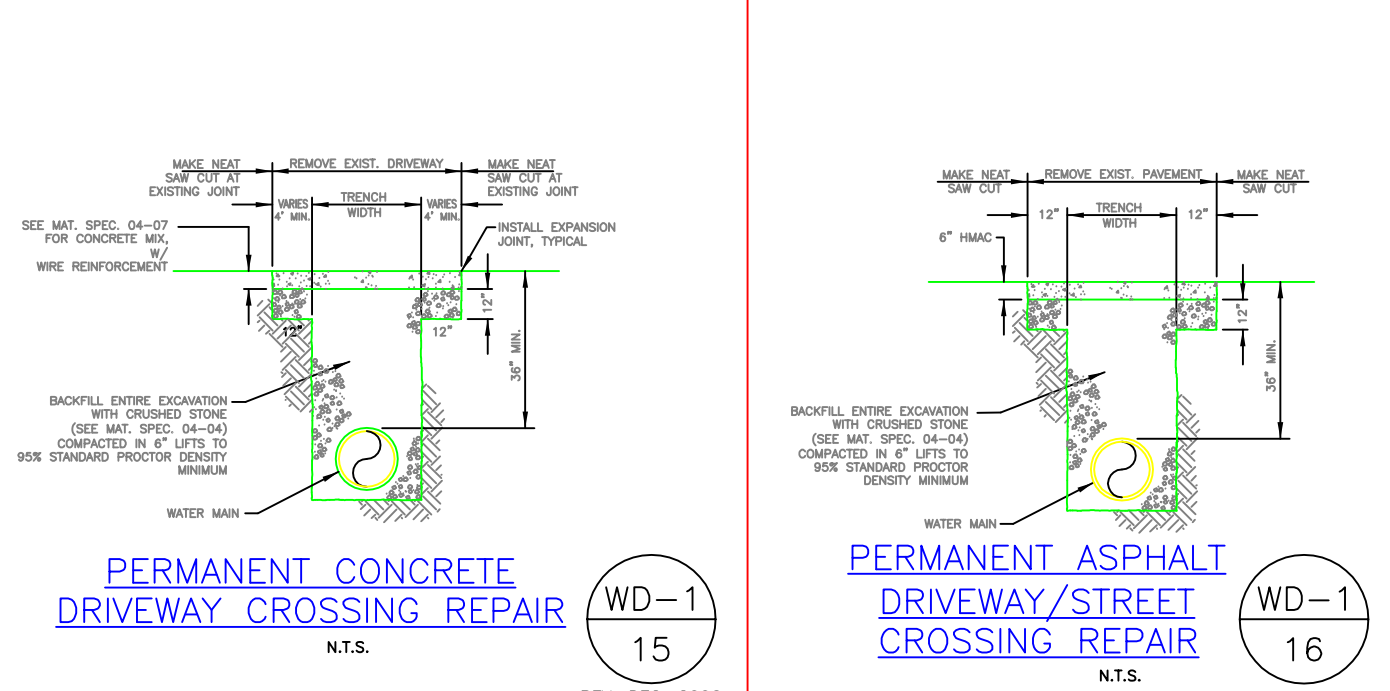
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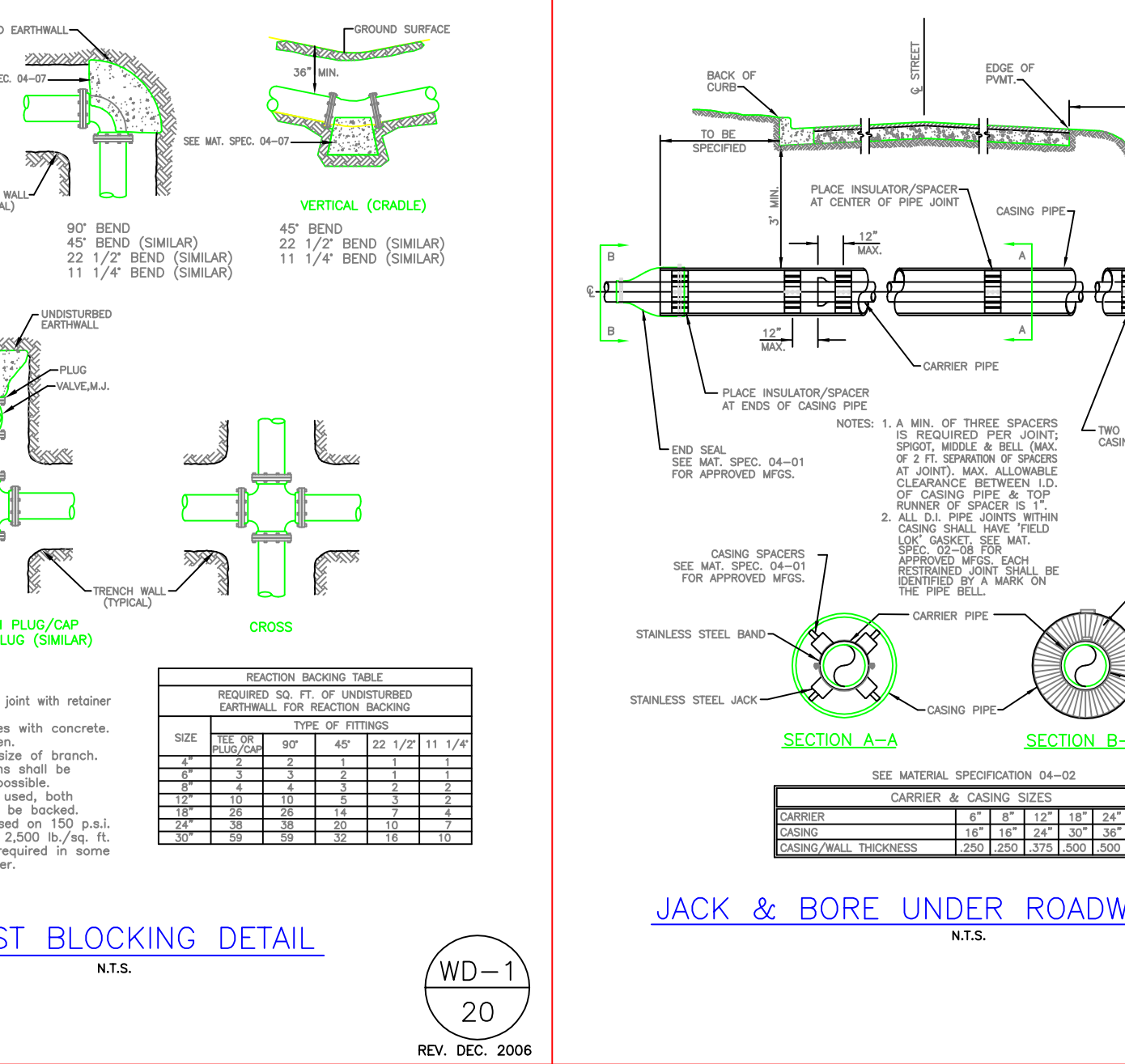
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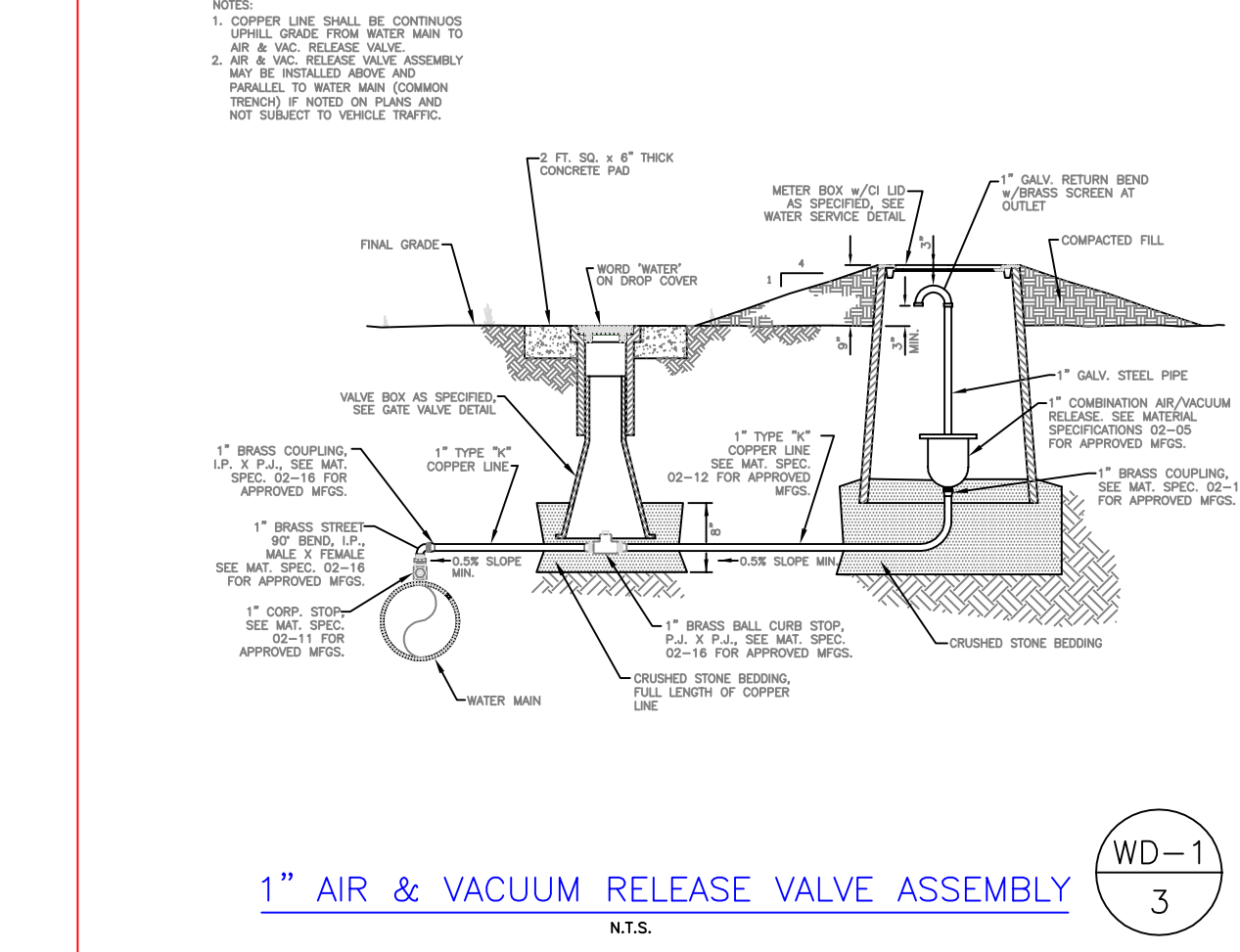
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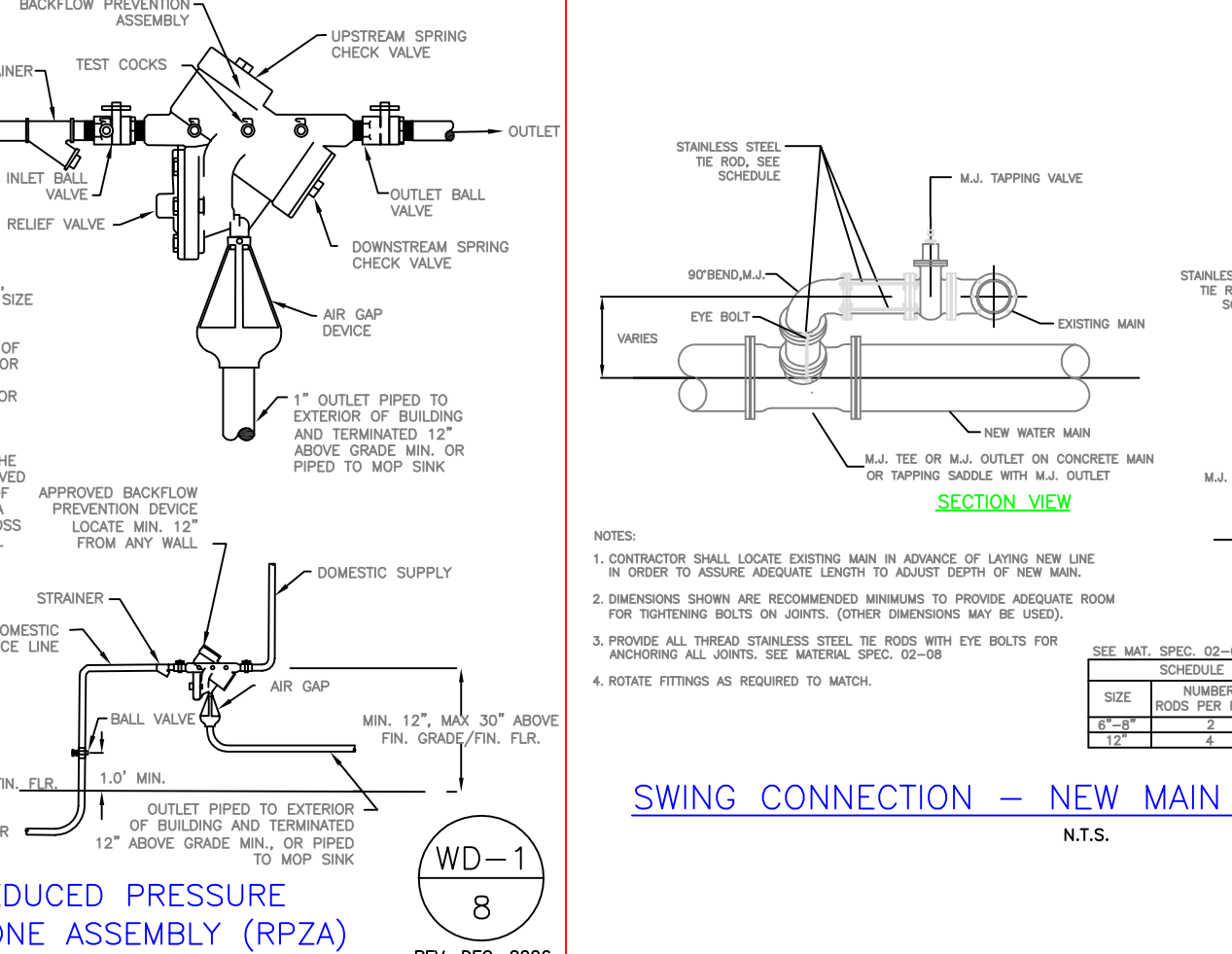
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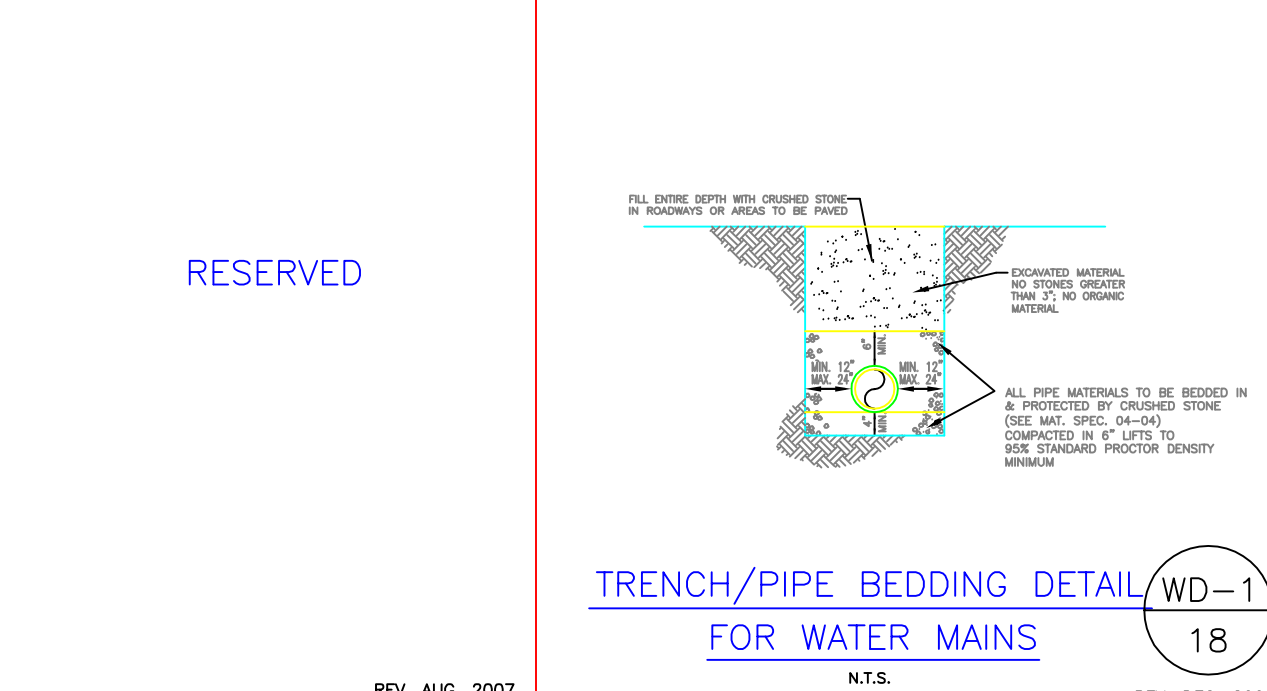
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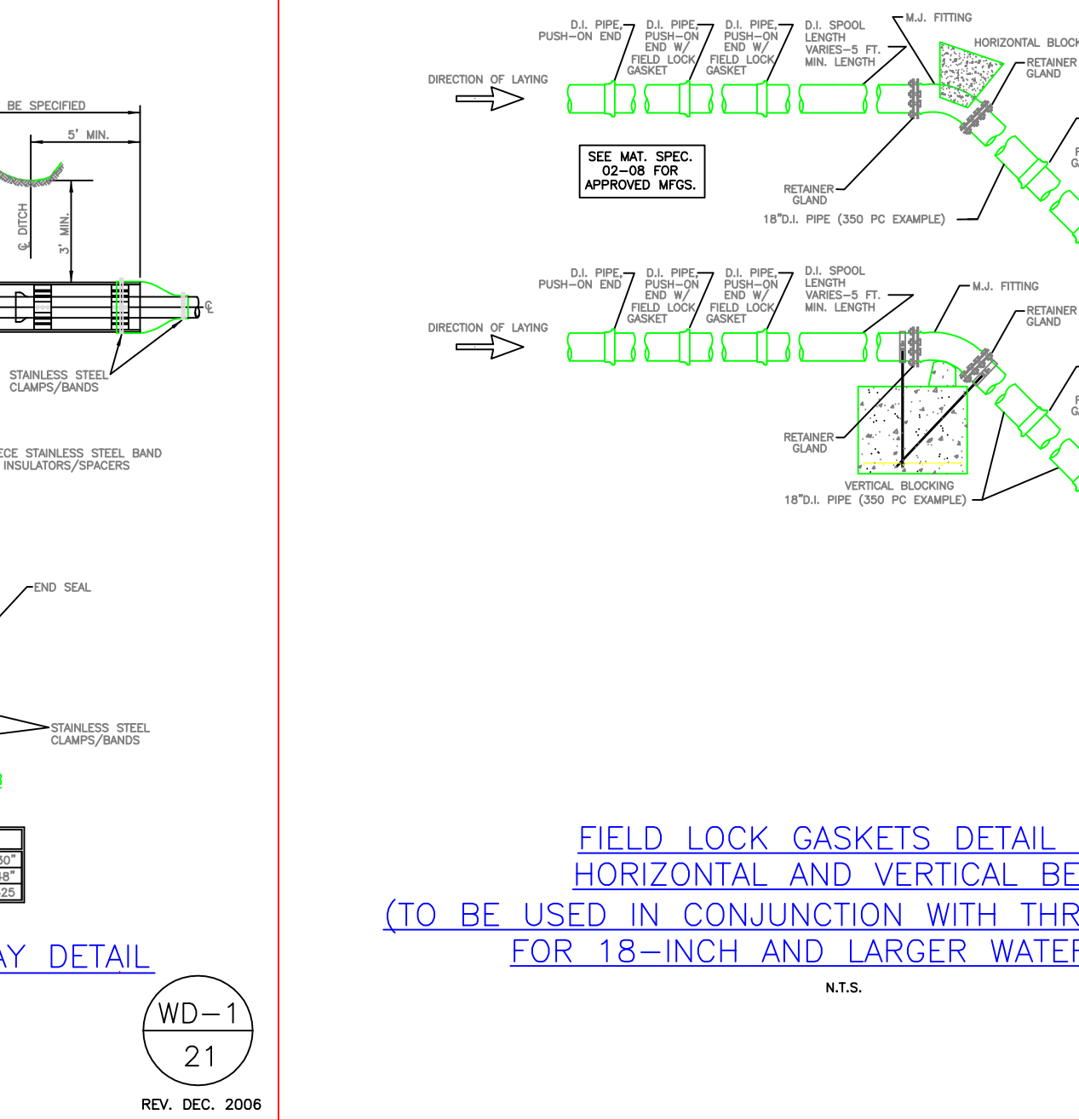
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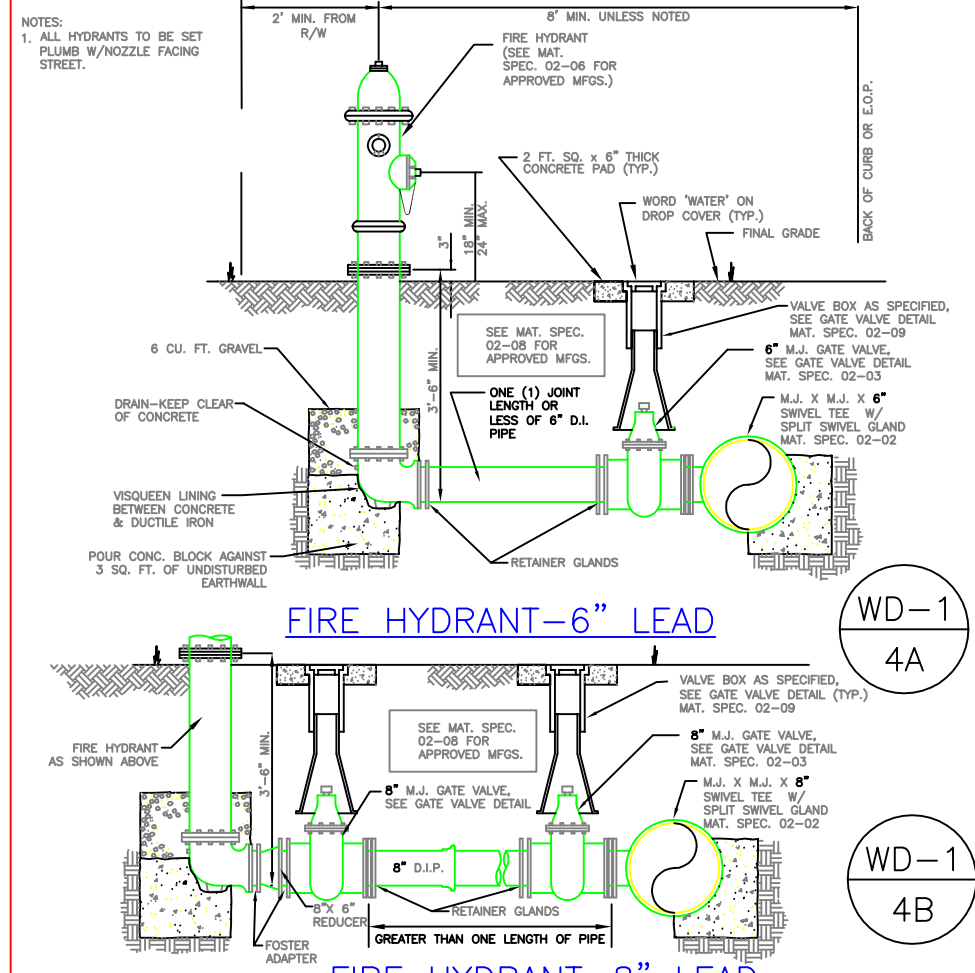
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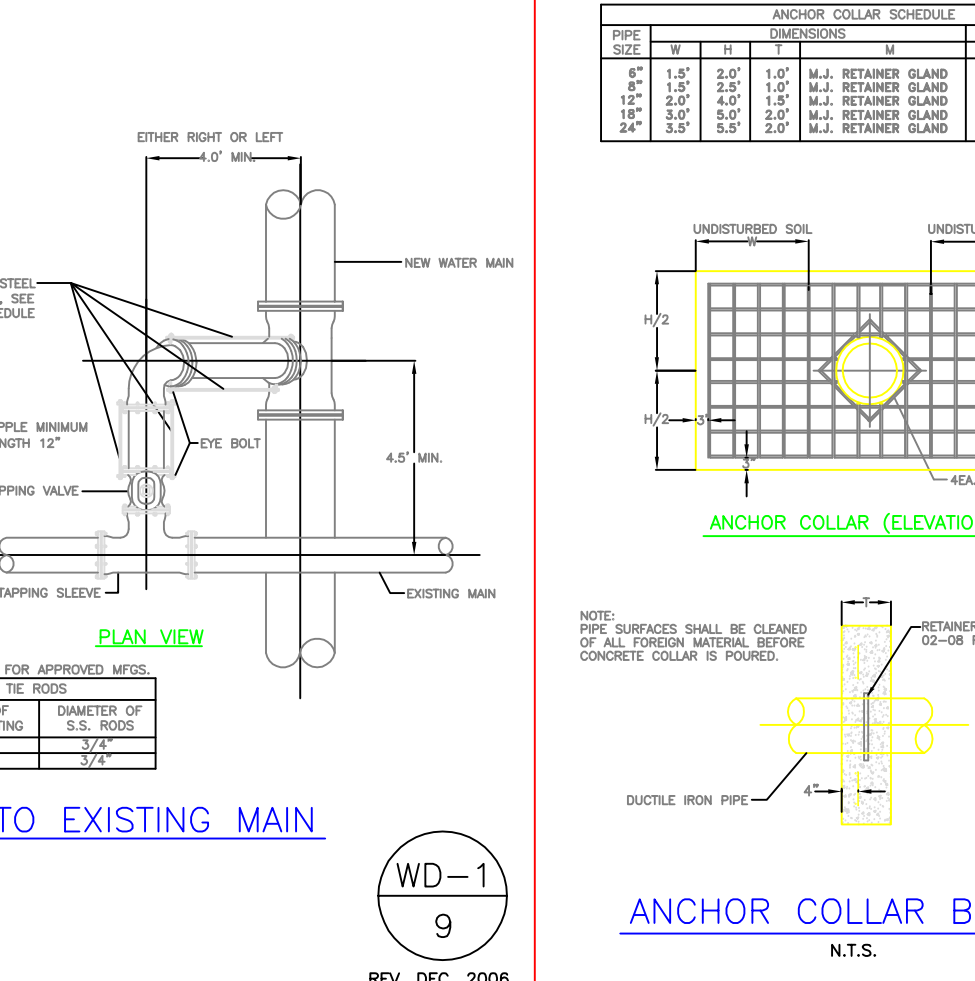
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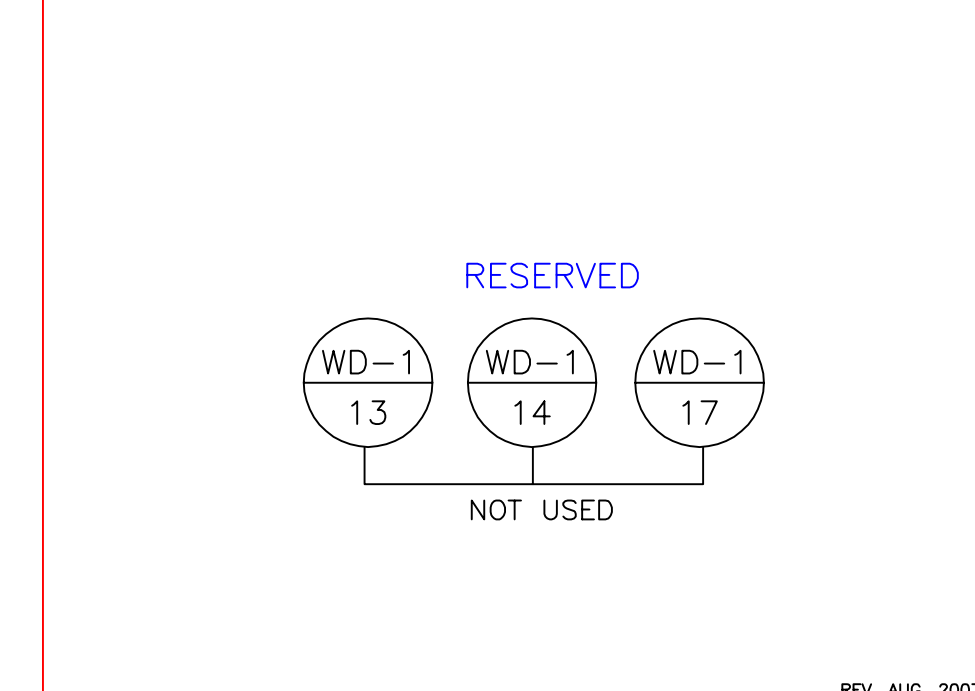
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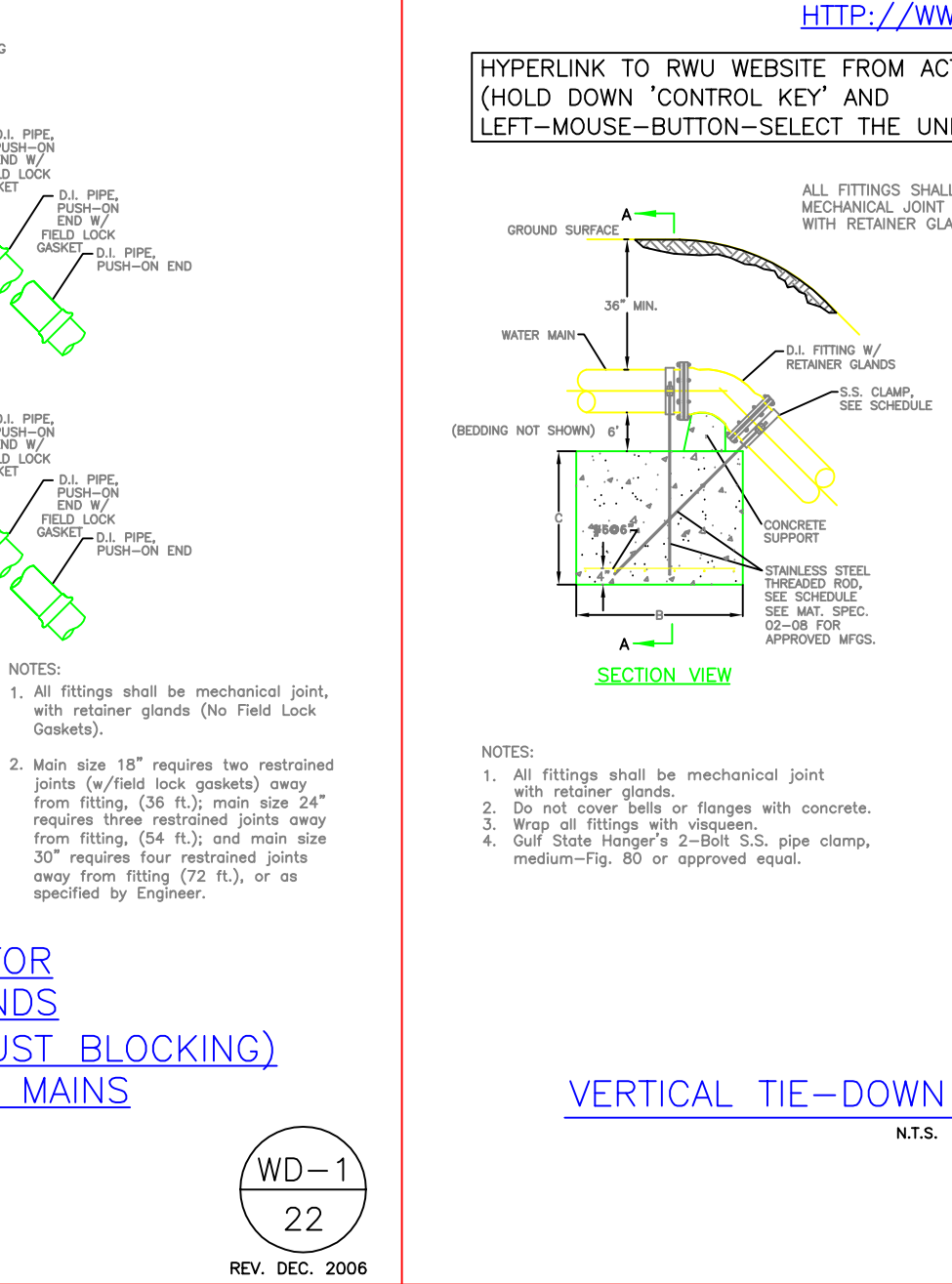
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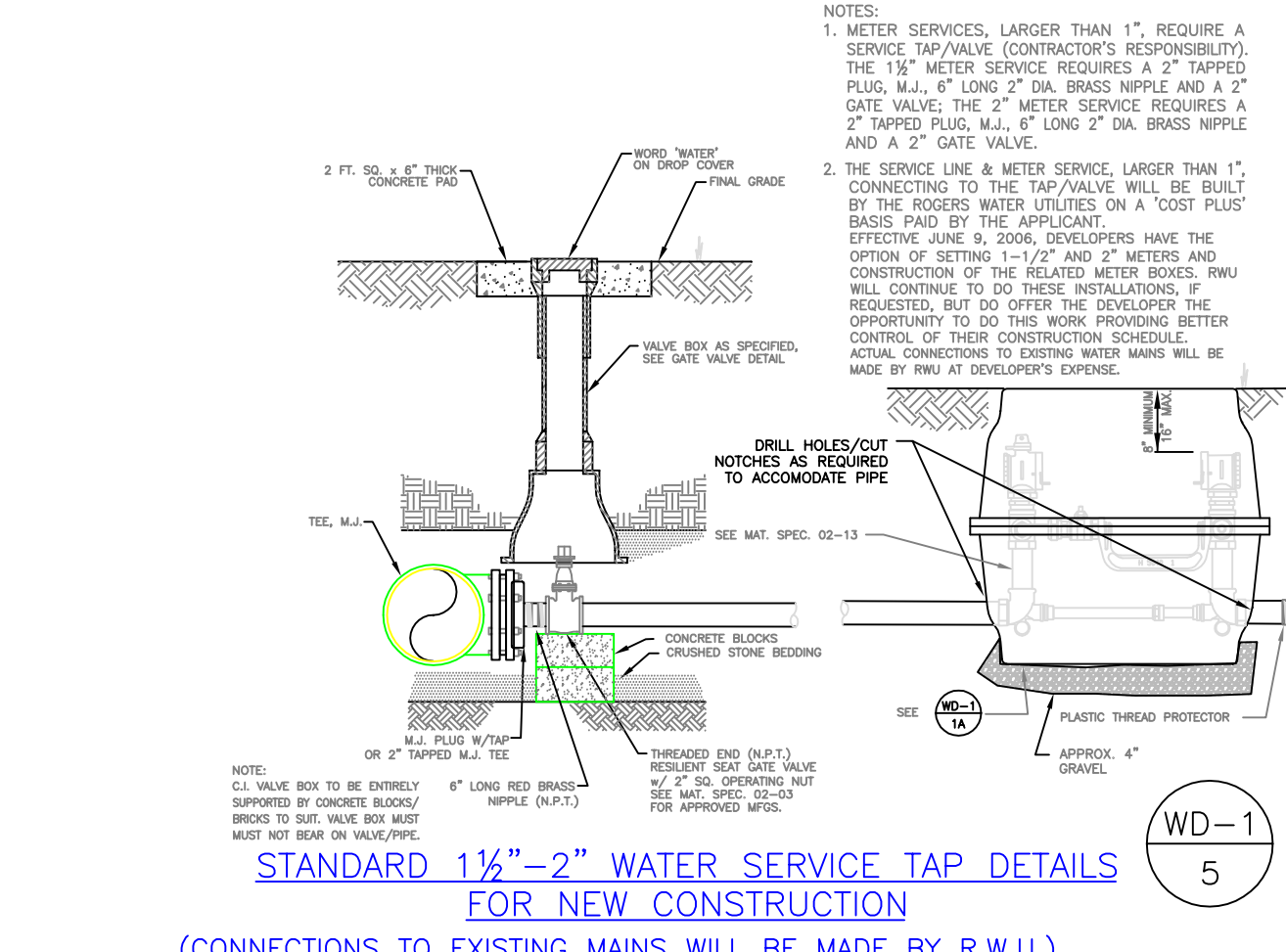
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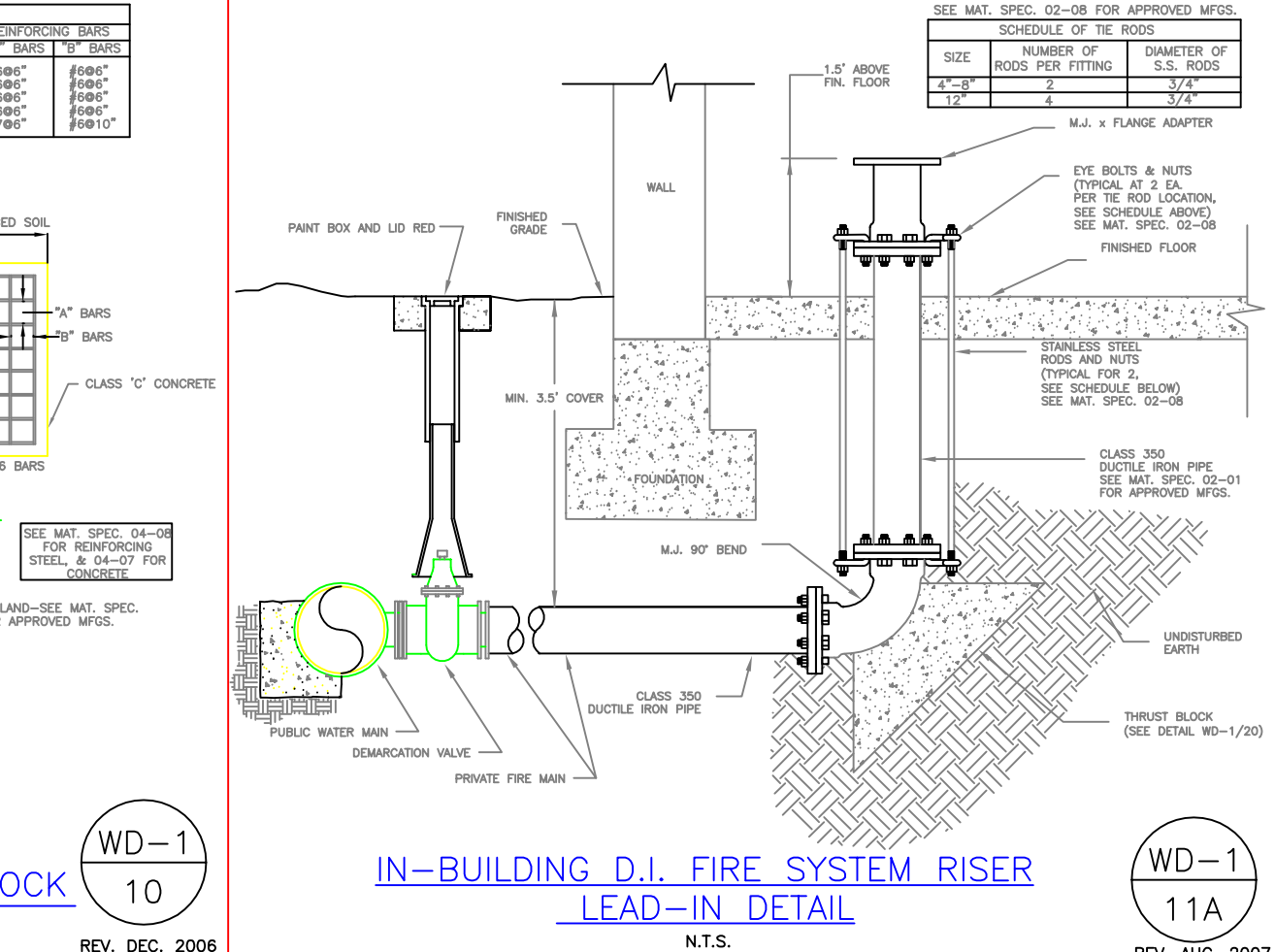
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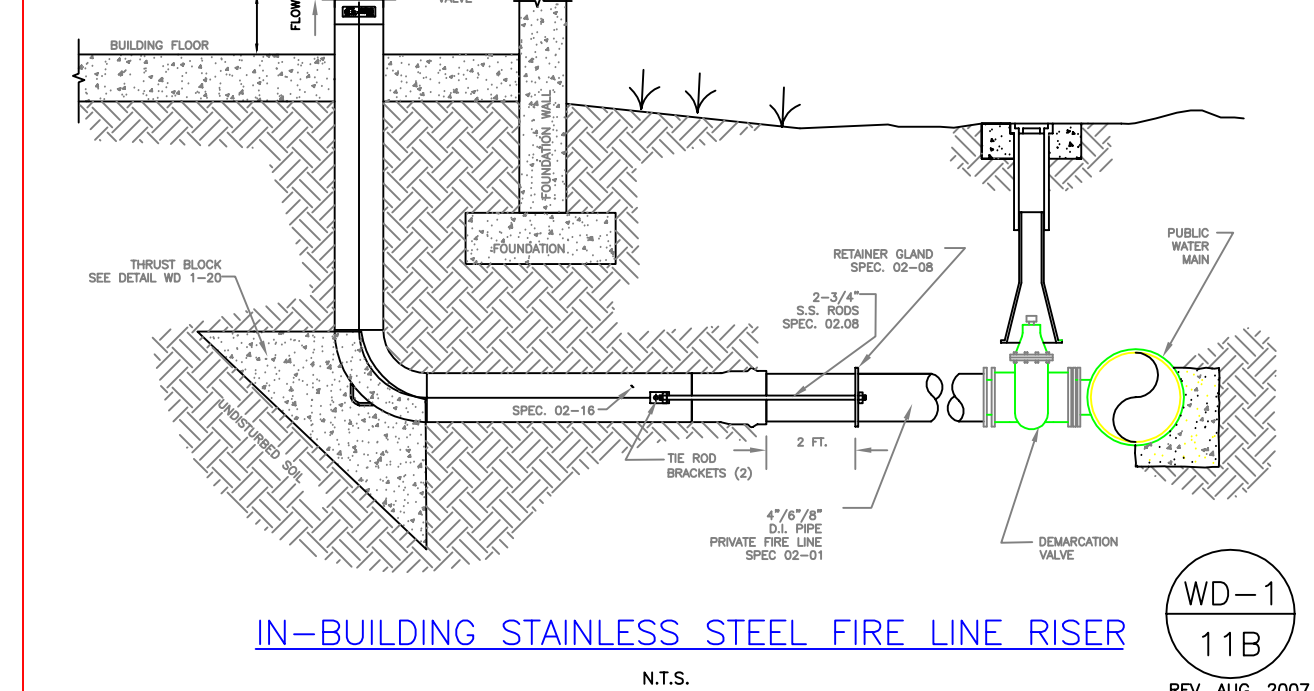
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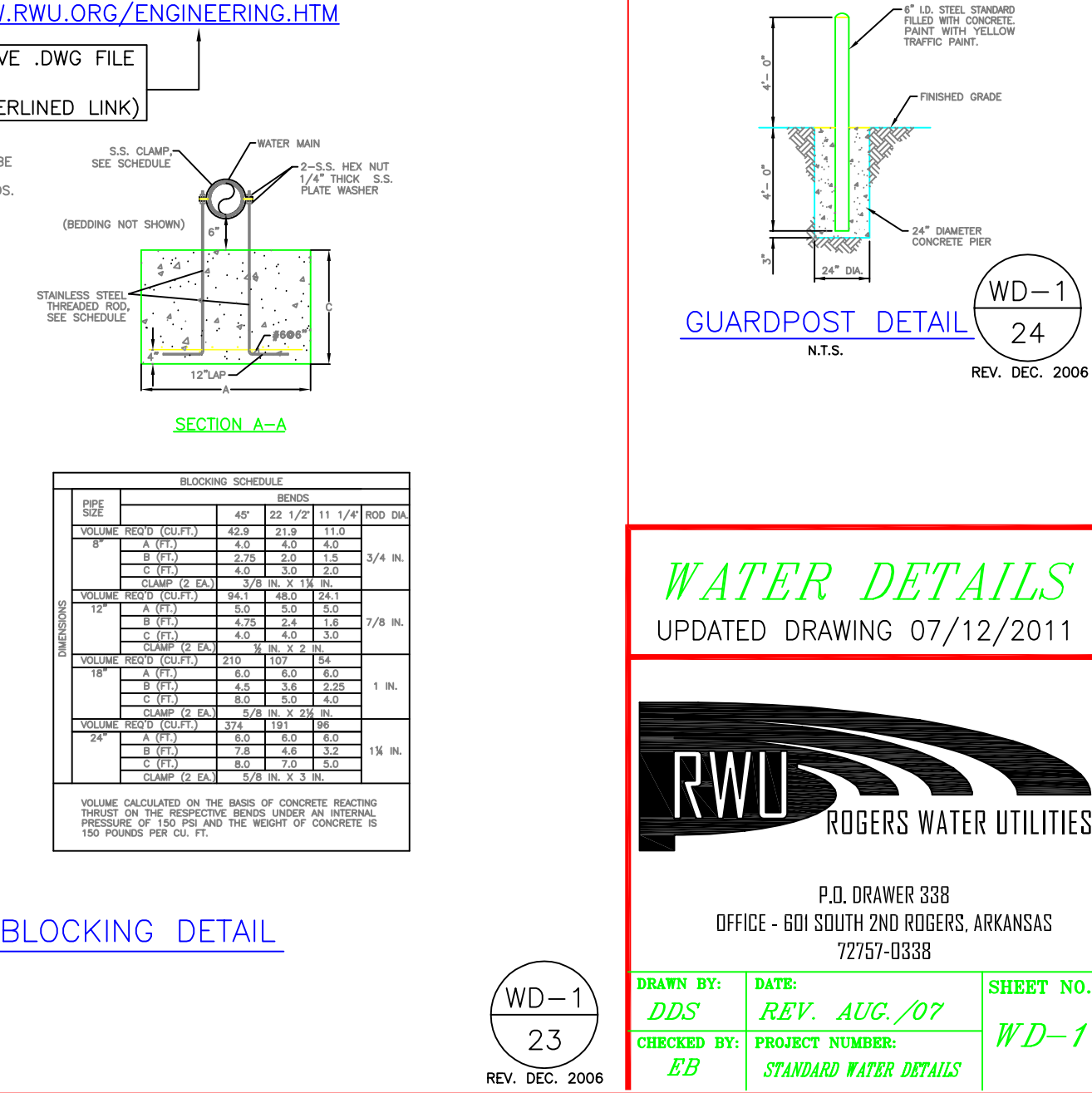
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SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS



WATER DETAILS  
UPDATED DRAWING 07/12/2011

RWU  
ROGERS WATER UTILITIES

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72757-0338  
DRAWN BY: DGS  
DATE: REV. AUG. 07  
CHECKED BY: EJB  
PROJECT NUMBER: STANDARD WATER DETAILS  
SHEET NO. WD-1



A circular logo with a horizontal line. The top half contains the text "WD-2" and the bottom half contains the text "1A".

Technical drawing of a roof curb assembly, showing three views: side elevation, top view, and a detail of the curb block.

**Labels and Callouts:**

- SOLID SLEEVE SEE MAX. SPEC. C2-02 FOR APPROVED MFGS.
- SNEW WATER MAIN
- SS RIDGE & EYE BOLTS-SEE WD. 1/9
- M.J. CAP
- REMOVE EXISTING LINE
- WATER MAIN TO BE RELOCATED
- SS RIDGE & EYE BOLTS-SEE WD. 1/9
- ANCHOR COLLAR BLOCK SEE WD. 1/12
- PURSUIT BLOCKING SEE DETAIL WD-1/20 [TYP.]
- TAPPING SLEEVE & VALVE SEE MAX. SPEC. C2-07 FOR APPROVED MFGS.
- EXISTING WATER MAIN



WD-2  
6


WD-2  
12

Diagram illustrating the fire hydrant assembly and its connections:

- EXISTING PUBLIC WATER MAIN** (top connection)
- MIN. 8" D.I.P. WATER MAIN** (middle section)
- WATER METER, SEE DETAILS** (WD-1/FA, WD-1/3, WD-1/6, WD-1/7)
- COMMERCIAL WATER SOURCE** (left connection)
- FIRE APPARATUS (ASSEMBLY)** (left connection, SEE WD-1/AA&B)
- IRRIGATION** (right connection)
- NEW PUBLIC WATER MAIN** (bottom connection)
- EXEMPT REQUIRED** (bottom connection)
- SEPARATION VALVE, SEE MAT. SPEC. GS-04 FOR APPROVED TYPE, DENT, RISER, BOX AND LID, SEE** (bottom connection)
- RELOC. IF NEEDED** (bottom connection)
- HYDRANT FIRE LINE** (bottom connection)



WD-2  
7



FIRE HYDRANT ASSEMBLY  
SEE WD-1/4AABB

FOSTER ADAPTER

M.J. X M.J. GATE VALVE  
OR BUTTERFLY VALVE AS  
SPECIFIED FOR PIPE SIZE  
SEE MAX. SPEC. 12-03  
FOR APPROVED MFGS.

M.J. PLUG








Diagram illustrating the Fire Alarm Pull Station Assembly:

- FIRE ALARM PULL STATION**: SEE WD-1/1 ABBB
- FOSTER ADAPTER**
- M.F. X M.F. BUTTERFLY VALVE AS SPECIFIED FOR FIRE-SIZE, SEE MD-301; SEE MD-301 FOR APPROVED INFO.**
- M.F. PLUGS**
- THRUST BLOODING**: SEE DETAIL WD-1/220 (T/F)
- ZS ROOF & EYE BOARDS—SEE WD 1/1**
- HATCHER SOLAR BLOCK**: SEE WD 1/10



WD-2  
11


Figure 10: Typical Bridge Post Detail. This cross-sectional diagram shows a bridge post assembly. At the top, a dimension line indicates the "LIMITS OF NEW WIRE" with a total width of 12'-0" and 8'-0" segments on either side. The central post is labeled "4" PRESSURE TREATED BRIDGE POST (TYPICAL)". It is surrounded by "4 STRANDS OF #6 WIRE TWISTED (TYPICAL)". The entire assembly is supported by a base labeled "6" PRESSURE TREATED POST (TYPICAL)". Vertical dimensions on the right show a total height of 12'-0" and a base height of 3'-0".



WD-2  
15

WD-2  
16

WD-2  
17



METER SIZE	FLOW RANGE	CONNECTION TO MAIN		METER BOX APPROX. SIZE		SOURCE
		NEW MAIN	EXISTING MAIN	SIDEWALK	GREEN AREAS	
5/8" (SINGLE OR DOUBLE)	1-20 GPM	1" CORP. STOP	1" CORP. STOP		~22" DIA. BASE	SEE STANDARD SPEC. 02-10
1"	3-50 GPM	1" CORP. STOP	1" CORP. STOP		~18"x24" BASE	SEE STANDARD SPEC. 02-10
1 1/2"	4-120 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	32" x 42" (PRECAST BOX)	2-24"x37" METER BOXES	SEE STANDARD SPEC. 02-13
2"	4-160 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	32" x 42" (PRECAST BOX)	2-24"x37" METER BOXES	SEE STANDARD SPEC. 02-13
3"	5-350 GPM	SEE WD 1/5	2" TAPPING SADDLE AND VALVE	8' L. x 5.5' W. x 4' D.		PRECAST BY PILE CONCRETE, LOWELL, AR
4"	15-1000 GPM	MAIN x 4" TEE AND VALVE	MAIN x 4" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWJ FOR LID DETAIL
6"	30-2,000 GPM	MAIN x 6" TEE AND VALVE	MAIN x 6" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWJ FOR LID DETAIL
8"	35-3,500 GPM	MAIN x 8" TEE AND VALVE	MAIN x 8" TAPPING SADDLE AND VALVE	6'x10'		(CAST-IN-PLACE BOX) BY CONTRACTOR-SEE RWJ FOR LID DETAIL

WD-2  
19

WD-2  
20

WD-2  
21

WD-2  
22



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CHECKED BY: <i>EB</i>	PROJECT NUMBER: <i>STANDARD WATER DETAILS</i>	